

Acc. 12-053
Kilip Field Notes, # 33000-35696
1939

Columbia Cacti /

Wunderman

Monats. Deutsch.

Kakt.-Gesell.

~~fr 3~~ Jan. 1932

pp 3 sq.

2 plants received from
Mun. Org. 4/9, both orchids
from forest
near Chermal

Brom = ? dryanderac
Kam

Orch = "Guereus" with
same dope as 34911
Cavendishii Guereus

Bromel, collected at
San Antonio

34912



Standard Blank Book

No. 67½

Journals Double \$ and Cts. no Units
Cash Books " " " "
Day Books " " " "
S. E. Ledgers " " " "
D. E. Ledgers Full Page Form "
Long Day Books "
Records with Margin Line "

In 150, 200, 300 and 500 Pages

Made in U. S. A.

Plant Photos

6cm (3) = 6

19. 33210 (lt.) 6cm = 2 140, 35459
- 33211 (rt) 6cm = 2 148. 35502
20. 33100 - 6cm (4) = 6 128. ↓ 6cm bulb (1)
24. 33337 - 1cm bulb (10) = 13 5
26. 33350 - (4) cm bulb = 3
41. 33610 - 1 —
54. 33711 - 6cm (3) = 5
56. 33856 - 6cm = 3
62. 33942 - 6cm bulb 7
63. 33943 - 6cm bulb - 4
64. 33944 - 6cm bulb - 3
69. 33948 —
81. 34153 - (1) g = 2
82. 34099 - 6cm (2) = 6
85. 34349 - 6cm (1) = 4
88. 34507 —
89. 33628 (?) —
96. 34540 6cm = 2
97. 34540 6cm = 2
98. 34540 6cm = 2
105. 34540 6cm = 2
107. 34704 6cm (2) = 5

May 4
made
Oct. 39



Standard
Blank
Books

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Negatives - Col. '39

20

117.

56.

88

89

41

69

63

24

19

64

26

54

145

add

96

97

52

81

148 (make for 45)

- ✓ 33001 *Lycopodium*
Stiff, erect. L., up to 2'
- ✓ 33002 Alga; on roots & stems of mangrove
- ✓ 33003 "
- ✓ 33004 *Vittoria Ptolomea*:
Epip.
- ✓ 33005 *Dimorphandra*
Stems under. Stems, up to 12" high; arising from base of large "stems" (see later coll.)
- ✓ 33006 *Laguncularia*
S. long br.; fl. pink-w
- ✓ 33007 *Pavonia*
S ± 3 ft; pet. y-pi
- ✓ 33008 *Piper*
S 3-4 ft, w
- ✓ 33009 *Aporosa*? *bigone*
Nubac. vine.
- ✓ 33010 *Rhabdod.*
Suff. vine; cor pale pi to white. Lvs 22 form
- ✓ 33011 *Maep.*
V; pet. y
- ✓ 33012 *Gesneria*
T 3-10-15' (fr)
- ✓ 33013 *Orch.*
Ep.; ocl sep. light pi
- ✓ 33014 *Orch.*
Ep.
- ✓ 33015 *Orch.*
+ a few perfect spots near base
Ande light pi & green tints of sep. & petals, perianth seg. Ep. See later
- ✓ 33016 *Orch.*
no young
young
See later
- ✓ 33017 *Benthamanthia*?
Coarse herb, densely viscosa throughout, up to 4 ft high, with
suffrutescent central stem & no branches; petals. yellow pink,
standard lined with deeper pi.

Buenaventura Bay, Agua Dulce (no mangroves) 4 2/3/39

mangrove swamp
Neth. of R. Daguia

Puntarenas, mangroves.

coastal thickets
Behind mangrove swamp

swamp marsh

coastal thickets

woods

marsh

- ✓ 33018 *Brom.*
Ep. lvs in large whorls, up to 25" l.
- ✓ 33019 *Brom.*
" " " " " " 3' l.
- ✓ 33020 *Phyllanthus*
Slender annual
- ✓ 33021 "
Perhaps winter here
- ✓ 33022 *Hyptis*
H. with elong. br.; cor. whitish
- ✓ 33023 *Bacopa*
H. prostr. stems; cor. wh.
- ✓ 33024 *Crotalaria*
H. y
- ✓ 33025 *Stachytarpheta*
Sh. 3-4'; cor. tube wh, limb rich blue to pinkish bl.
- 33026 *Passiflora quadrangularis*
Seeds from fruit cocktail at hotel
- 33027 "
" *legumin.*
- ✓ 33028 *Tradescantia*
Per. w
- ✓ 33029 *Paspalum*
Good pasturage for horses
- ✓ 33030 *Hyptis*
Large herb, cor. w
- ✓ 33031 *Paspalum*
- ✓ 33032 *Ruellia cornubona*
- ✓ 33033 *Mim. pija?*
Gr. bushy 3-4', div. br.
- 33034 *Paspalum*

"Chiripaya"

Guayaquil: Puntarenas Pa. ^{behind} mangr. sw.
Cuartel Micheto

2/3/39

: waste places about city

2/4/39

Said to have come from

Cali

Grows in Pifutina

grows on
waste places

2/5/39

"Siempre viva"

"Dormidera"

- ✓ 33035 *Crassiaea*
Herb, 1-3 ft; pet y
- ✓ 33036 *Desmodium*
Fls. pink; proc. l., dr. suber. "Pigapaga"
- ✓ 33037 *Cyperus*
- ✓ 33038 *Chidemia*
5 ± 2'; pet. wh. "Mora"
- ✓ 33039 *Melast.*
Herb, v. branched above; pet. pale pi; anths deep pi
- ✓ 33040 *Melast.*
Pet. ripe
- ✓ 33041 *Thomson*
Cor. deep pi in v. out profus; light pi in v. out dist.
- ✓ 33042 *Xyris*
Pet. y
- ✓ 33043 *Scroph.*
Particulate herb; cor. viol. out, white in, lobes viol. - margined
- ✓ 33044 *Hydrocotyle*
Repen herb; fls. greenish wh.
- ✓ 33045 *Eleocharis*
- ✓ 33046 *Ficoides*
- ✓ 33047 *Cyperus*
Pet. p.
- ✓ 33048 *Asclepias*
Stems l.; pet. light y
- ✓ 33049 *Uniola*
Stoloniferous herb.
- ✓ 33050 *Spilanthes*
Stem slightly succul.; rays bright y; petals anal y
- ✓ 33051 *Piper*
2-3 m

Buenaventura; marsh

2/5-

waste places

Tidal swamp.

Swamp.

~~Marsh~~ Wet soil

Waste places

Gorgonilla Is. sandy beach

2/8

- ✓ 33052 *Chamaecristula*
much fr.
Tree 5m, trunk 5-7cm. diam.; pet. light y
- ✓ 33053 *Peperomia*
Reptant on tree trunk, independent
- 33054 *Epidendrum nocturnum* ?
Epip. 5 pet. gr.; lip. wh.; cal. brownish
- ✓ 33055
Moss on roots of 33054
- ✓ 33056 *Ficus*
Tree 6-7m.
- ✓ 33057 *Adiantum*
Crevices of rocky cliffs
- ✓ 33058 *Kyelingia*
" " Caeosp. h
- 33059 *Gesneria tomentosa*
Old inf.
- ✓ 33060 *Arauc.*
Reptant, zigzag stems
- ✓ 33061 *Clidasmum*
St ± 2m. Densely w; styles purp.
- ✓ 33062 *Bignon*
High-climbing vine on trees
- ✓ 33063 *Simarub.*
Sm. tr ± 3m. fr.; br. spread.
- 33064 *Polypodium*
Ep.
- ✓ 33065 *Rub.*
Indistinct patches in sandy trail
- ✓ 33066 *Cyathia trichostachya trichostachya* (Thunb.) Trigon
Climber 2m; fr. ± 3m.
- ✓ 33067 *Acalypha*
Sm. tr, fr.
- ✓ 33068 *Rub.*
Tr., much fr., slender trunk; young fr. br.

~~Buenos~~ Gorguilla Is.; woods along coast

2/8/38

- : rocky cliffs

Woods along coast

Samby
dense forest; 130 m.

- ✓ 33069 *Eitracelis*
Tr. 4-5 m; cor. wh.; also at sea-level
- ✓ 33070 *Arac.*
Climbing trunk
- ✓ 33071 *Peperomia*
Dep. from trees
- ✓ 33072 *Cestus*
A. trunk, $\pm 1.7-2$ m. h.; fr. n., per. y
- ✓ 33073 *Polygodium*
Climbing on TT
- ✓ 33074 *Arac.*
Climbing on T
- ✓ 33075 *Fern*
Fr. 1.5-2 m l. when dry.
- ✓ 33076 *Moss*
On decaying log
- ✓ 33077 *Solanum*
S ± 2 m; cor. w, anth. y
- ✓ 33078 *Mupin?*
T. 4-5 m; fl. pi
- ✓ 33079 *Peperomia*
Dep. from tr.
- ✓ 33080 *Moss*
On dec. log.
- ✓ 33081 *Paramea*
Sh. 3-3.5 m
- ✓ 33082 *Erythra?*
h. 3-4 m.
- ✓ 33083 *Pothomorphe*
H. up to 1 m
- ✓ 33084 *Sciadophyllum*
S ± 2 m; lvs & infl. at top
- ✓ 33085 *Anthurium*
Ter. h.

Gorgonilla Pa.; dense sandy forest, 130-200 m. 2/8

- ✓ 33086 *Clidemia*
Sh. ± 1 m, with erect stems; anth. of fil. pi
- ✓ 33087 *Rub.*
S 1.7-2 m; cor. uph pi, fr. purish
- ✓ 33088 *Piper*
Sh. ± 2 m
- ✓ 33089 *Piperanum*
Rep. from tr. br.
- ✓ 33090 *Anthurium*
On tr; lvs very shiny
- ✓ 33091 *Polypodium*
On trees
- ✓ 33092 *Melast.*
Sh. ± 2 m; stem str.; fr. bright blue
- ✓ 33093 *Miconia lacina*
S 1-1.5 m; pet. & st. pi
- ✓ 33094 *Clusia*
Unsh. h. sh. on tree
- ✓ 33095 *Piper*
S ± 1.5 m.
- 33096 *Cassia*
Tr. 6-7 m, spr. crown; pods up to 40 cm (get!) un
- ✓ 33097 *Hesperia*
Tr. pet. or - y, at length or
- ✓ 33098 ~~*Blachia*~~ *Blachia*
fr. purplish-black
S $\pm 1.5-2\frac{1}{2}$ m; pet. waxy wh, fil. yel gr; anth y, deep gr. dist
- ✓ 33099 *Iceteria*
- ✓ 33100 *Marila*
Pl. 20 pet. bright y. against
Tr. \pm vase-shaped; lvs & infl. at top of ascending br.
- ✓ 33101 *Adiantum*
- ✓ 33102 *Hypolytrum*

Gorgonilla Is.; dense sandy forest 130-200 m.

2/8

Gorgona Is. ^{near} thickets near coast

2/9

woods " "

beach

Coastal thickets
→ predominant pl. of SE corner

^{bank of}
in forest along small stream
dense forest

^{sand}
in forest along small stream

- ✓33103 *Dichromaena*
Very hairy
- ✓33104 *Techmosiphon*
Per. wh.
- ✓33105 *Spigelia*
Ds. wh. H
- ✓33106 *Polypodium duale*
On tree trunk
- ✓33107 Rub.
Er. herb. 1 m high; fr. r
- ✓33108 *Piper*
5 ± 1 m
- 33109 *Vanilla*
V
- ✓33110 *Arac.*
- ✓33111 *Piper*
Shrub ± 2.5 m.
- ✓33112 *Blabea*
S. 90 cm; fl. wh & fr. purpl., sweet, pulp pinky
- ✓33113 *Casearia*
Shrub 5 m. to 1 m, much fr.; fls. greenish wh.
- ✓33114 *Palicourea*
Small tree, 4 m.; br. infl. reddish; cor. y
- ✓33115 *Piper*
Sm. tree
- ✓33116 *Arac.*
Long vine
- ✓33117 *Piper*
Sh 3 m, small tr
- ✓33118 *Psychotria*
Tr. ± 5 m; cor. wh.
- ✓33119 *Piper giganteum*
T, 4 m, elong. br.

Gorgona Is. bank of small stream in forest ^{+ seaboard}

2/9

dense for.

Gorgonilla Is. : dense sandy forest, 130-200 m.

2/8

£

- ✓ 33120 Piper
Sh. ± 1.5 m.
- ✓ 33121 Ruyoshia
Tr. 11 m, trunk 80 cm. diam.
See Separate Fruit Collection
- ✓ 33122 Cessentia
Shr. tr., 3 m, ^{branches} ~~leaves~~ spreading
- ✓ 33123 Lycopodium
- ✓ 33124 Sauvagesia
Herb; flt. pink w
- ✓ 33125 Melast.
H., fl. wh.
- ✓ 33126 Terminalia catappa
Tr. 8 m. (cort.)
- ✓ 33127 Psychotria
Tr. 4 m or more; cor. wh.
- ✓ 33128 Rub.
- ✓ 33129 Comp.
S. 2 m.
- ✓ 33130 Peperomia
Tr. ^{erect} on cliffs
- ✓ 33131 Aeschynomene
"
- ✓ 33132 Ichnanthus
on shaded cliffs
- ✓ 33133 Melast.
H. to 75 cm; pet. pi; st. w
- ✓ 33134 Diodora
Herb; pet. pi
- ✓ 33135 Bryopleura
- ✓ 33136 Ichnanthus

Additional Material in
General Herbarium

u
uncinate for the
"Almendros"

"Malbrilla arica"

Gorgona 72: woods ~~near coast~~

2/9

coastal thickets

woods

woods near coast

2
10

Gorgonilla: on cliffs along shore

2/10

Gorgona 72. (east side) coastal thickets

2/11

- ✓33137 *Scleria*
- ✓33138 *Peperomia*
~~at~~ Cl. trees & def.
- ✓33139 *Melast.*
 S. fls. p.
- ✓33140 *Neopolytrichum*
- ✓33141 *Fungus*
 on small logs; wh.
- ✓33142 *Melast.*
 H.
- ✓33143 *Arac.*
 Ter., Cl. st.
- ✓33144 *Hep.*
 On tree
- ✓33145 *Moss*
 do
- ✓33146 *Piper*
- ✓33147 *Rub.*
 Jr. fls. wh.; br. in fruit purple & blue; fr. gr.
- ✓33148 *Rub.*
 Rubens infl. Sm. tree
- ✓33149 *bielen.*
 V; fls. white
- ✓33150 *Hyptis*
- ✓33151 *Selag.*
 Ter.
- ✓33152 *Rub. myrsinites*
 Cor. ~~fl.~~ 5 ± 1 m
- ✓33153 *Euph.*
 2.5-3 m; very much; fls. gr.

Gorgona Is.: ~~Coastal~~ ^{Mar.} ~~land~~

dense forest along stream

- ✓ 33154 *Nandivela*
✓
✓ 33155 *Spermatoc*
H.; fls. w.
✓ 33156 *Sebag*,
Vine
✓ 33157 *Adiantum*
✓ 33158 *Piper*
8-1.5 m.
✓ 33159 *Coccythium*
H; stem, red,
✓ 33160 *Geonoma*
Tr. 80 cm. high
✓ 33161 *Rhipidoptera*
On dec. tr.
✓ 33162 *Arch.*
Ep.; pet. deep pi; lvs. obov. yg
✓ 33163 *Polyposium*
Ep
✓ 33164 *Sebag*,
Ter. stem up.
✓ 33165 *Sectaria?*
Sterile
✓ 33166 *Moraceae*
T. ± 4 m; buds y w
✓ 33167 *Cyper.*
✓ 33168 *Piper*
80 cm; sterile
✓ 33169 *Sol.*
Slender sh. ± 1 m; cor. wh. cent. gibb
✓ 33170 *Bauhinia maritima* sp. nov.
S. erecta. ± 1 m; pet. wh.

Gorgona Is. (east side); dense for. along stream

2/11

- ✓ 33171 Melast.
S; pet. pi.
- ✓ 33172 Helechos.
- ✓ 33173 *Henitelia* *Cycloclium trianae* var. *chocense* A. K. Smith
Caul. ± 80 cm; fr. 1.6 cm, ~~or~~
- ✓ 33174 *Epidendrum*
Ep. 5 pet. gr. lip & cal. wh.
- ✓ 33175 Moss
On dec. tr.
- ✓ 33176 Rub.
Br. wh. slender shr
- ✓ 33177 *Carludovicia*
- ✓ 33178 Rub.
- ✓ 33179 Pl. wh. J $\frac{1}{2}$ 5 m. up
Leaves.
H. on muddy bank; cor. bright y
- ✓ 33180 Arac.
Spathe wh; spad. fruit red
- ✓ 33181 *Polygonum*
Ep.
- ✓ 33182 *Islandia*
Ep
- ✓ 33183 *Elaph.*
Ep.
- ✓ 33184 *Lindaea*
Ter.
- ✓ 33185 Arac.
Ep.
- ✓ 33186 Melast.
Smt. ± 3 m
- ✓ 33187 Bromel.

Gorgona Is. (west side) dense forest

~~un. 956~~

un. 956

H 956

un - 15

un - 15

un - 15

- ✓ 33188 Moss
Clumps out. t.
- ✓ 33189 Selag.
On bank
- ✓ 33190 Hypnum sp.
On wet tt.
- ✓ 33191 Hypnum sp.
- ✓ 33192 Cyperac.
- ✓ 33193 Rub.
Th. dec. bush; tr. 10 m.
- ✓ 33194 Moss
On Pter.
- ✓ 33195 Trichomanes
Ep.
- ✓ 33196 Polypodium
Ep.
- ✓ 33197 Hypnum sp.
Ep.
- ✓ 33198 Asplenium *Thelypteris lepicurii* (Hook.) Tryon var. I. det M.S. Smith 1976
- ✓ 33199 Polypodium
- ✓ 33200 ?
- ✓ 33201 *Casearia* *Stenale*; characteristic; loss at top of straight trunk to ± 3 m.
- ✓ 33202 *Faramea*
Sun tr; fl. greenish w
- ✓ 33203 *Conterea*
Sun. tr. 5-6 m. fr. wine-red.; cor. light gr.
- ✓ 33204 *Gesner.*
W.V., cor. wh.
- W.V.; cor. rich pi

Jargosa 72. : along stream in dense for.

un-10

un-10

: edge of forest at coast

- ✓ 33205 *Myrt.* ? *cutif*
Tree 10 m. a more; fr. red
- ✓ 33206 *Ruprechtia*
Tr; fls. greenish wh.
- ✓ 33207 *Bignon.*
WV; fls. bright y
- ✓ 33208 *Melast.*
T pet. rich pi; st. deep purple
- ✓ 33209 *Rub.*
T ~~Cor tube~~ Cor tube yg, lobes rich pi
- ✓ 33210 *Clusia*
T ± 3 m.; fls. w.
- ✓ 33211 ?
T ± 3 m.; fr. dull red. 19 Pl. (Tae left.)
add fruit to det. label
- ✓ 33212 *Melast.*
T. pet. deep pi 19 " " " " " "
- ✓ 33213 *Fern*
Tr. pet. rich pi Tr.
- ✓ 33214 *Pera*
S 3-4 m; fr. greenish w
- ✓ 33215 ?
Small tree. un.-1C
- ✓ 33216 *Dicranopteris bispida*
Overhanging cliffs
- ✓ 33217 *Mareguaria*
V, seeds red.
- ✓ 33218 *Dicranopteris pectinata*
Overhanging cliffs; no fertile seen
- ✓ 33219 *Rub.*
Fls T. buds greenish wh
- ✓ 33220 *Bumel.*
Tr. per. pale pi.
- ✓ 33221 *Ceropia*
Tr. ± 12 m.

Laguna 7a. : edge of forest at coast

- ✓ 33222 *Hedyosmum* *Carmin*
 1 ± 3 m; ripe fr. black, lustrous
- ✓ 33223 *Melast.*
 V; pet. y.
- ✓ 33224 *Polyphallus*
 Climbing tr.
- ✓ 33225 *Rub.*
 2-2.5 m.
 Sm. tr; slender straight tr; br. wh.
- ✓ 33226 *Arac.* *sp.*
 Fr. scarlet
- ✓ 33227 *Rub.* *send over to F*
 br. redish pi.
- ✓ 33228 *Orch.*
- ✓ 33229 *Aschynomene*
 Ep. pet. pi.; dotted & blotched with purp.
 Herb; pet. y, stam. pi. out, pi. striped in
- ✓ 33230 *Chamaecrista*
 H.; fls. y
- ✓ 33231 *Peperomia*
 Repent in soil or open.
- ✓ 33232 *Gen.*
 Bract light gr.; cor. brightly.
- ✓ 33233 *Utricularia*
 Cor. y
- ✓ 33234 *Scleria*
- ✓ 33235 "
- ✓ 33236 *Piper*
 T ± 4 m
- ✓ 33237 *Pisonanthus*
 Cor. gr.
- ✓ 33238 *Melast.*
 Ter.; lvs. red; br. pi; per. w

Gorgona Is.; edge of for. at coast.
 thickets along coast
 edge of for. at "
 along stream in dense for.

Buenaventura: waste places

2/13

(R.R.)
 Km. 18 (Pumping Station), e. of Buenaventura: (2 km. w. of Chidala)

2/14

Open hillside

Bog
 swamps.

dense forest

swamp.

dense forest

1244a Jesu.

- ✓ 33239 Rub.
tube lobes bright blue
pinkish white → Shrub
- ✓ 33240 Calathea
Per. wh.; fl. ± 1.5 m.
- ✓ 33241 ~~Calathea~~ Trichopogon nigripes var. brunneus Bonap.
Per. w. fl. ± 1 m
- ✓ 33242 Piper
Ter
- ✓ 33243 Bromel.
Ep.
- ✓ 33244 Gesu. "Vibora" "Vibora"
Cr. tube grayish dist. ² De prop; los solidos p. 2. here or green or red var
- ✓ 33245 Gesu.
Br. y, red dist. los red base.
- ✓ 33246 ~~Epiphyllum~~ Cyclodien Aranea var. chocolate A. K. Smith
(Slip fr.)
- ✓ 33247 Ficus
a
- ✓ 33248 Moss on
On leaves
- ✓ 33249 Anthurium
On tree
- ✓ 33250 Arae.
Ter.
- ✓ 33251 Gesu.
ter.; ~~no fl.~~ Cor. wh.
- ✓ 33252 Trichomanes pinnata
Ter.
- ✓ 33253 Trich.
Ref. on tt.
- ✓ 33254 Pelea
Ter.
- ✓ 33255 Palm
50 cm. diam.
Incl. + 15 m; fr. 10 cm. long.
Infl. with short, stem ± 20 cm diam / petiole; Total width ± 60 cm.

Km 18

dense forest

414

- ✓ 33256 Cyperaceae
- ✓ 33257 Melast.
- ✓ 33258 Rub.
fl (st. □) pet. pinkish wh.
- ✓ 33259 Marcellia
Herb V.
Buds y-g. Fr. T.
- ✓ 33260 Rub.
Sun T. br. white; buds gr wh, lobes w (slender br)
- ✓ 33261 Rub.
fr. ~~br.~~ purple
- ✓ 33262 Hypoxis
- 33263 Costus Calceola
Per. wh, pi. striated
- ✓ 33264 Peperomia
Ref. on TT
- ✓ 33265 Melast.
S ± 2 m, pet. o st. pi. (lvs retic)
- ✓ 33266 Melast. Jucoca
fr pi.
- ✓ 33267 Piper
Sup. h. ± 2.6 m.
- ✓ 33268 Coccocypselum
E. S ± 20 cm.
- ✓ 33269 Gesner
Der. for 204 red blotches on lvs
- ✓ 33270 Arac.
"Guaco", "Vibora"
- ✓ 33271 Coccocypselum
E. S, fr. scarlet
- ✓ 33272 Jussiaea
H. ; pet. w

Km 18

dense for.

2/14

W-H.S.

- 33273 Rub.
 H.; lvs purplish & base
 33274 Melast
 33275 Bauhinia
 WV
 33276 Rub.
 T. fr. wh.
 33277 Melast.
 H.
 33278 Boronil.
 Dr. bright r.
 33279 ? Cling
 Jr.
 33280 Burmann?
 Epiphyt.; fls. white prox; bluish pi. dist.
 33281 Melast.
 fls. deep pi
 33282 Geener.
 Cr. y.
 33283 Melast.
 33284 Cyclanthus
 2h; fl. 1.5m
 33285 Moss
 on leaf of 284
 33286 Chamaefistula
 33287 Chamaedorea
 33288 Melast
 33289 "
 H

18
 18

18
 18

18
 18

- ✓ 33290 Comp.
- ✓ 33291 Euph.
- ✓ 33292 Piper
S ± 2.5 m
- ✓ 33293 Anthurium
Ter; spathe *pale wh.*; spad. *g. to wh. at length deep*
(all this day, *same*)
- ✓ 33294 Piper
H ± 3 m
- ✓ 33295 Pityrogramma
± 60 cm high
- ✓ 33296 Cyperus
Heads pale
- ✓ 33297 Hyptis
H, fls. purp.
- ✓ 33298 Tournefortia
- ✓ 33299 Melastom.
- ✓ 33300 Melastom.
H; pet. pale pi
- ✓ 33301 Comp.
H ± 1 m; fls. y
- ✓ 33302 Rub.
V; frs. red
- ✓ 33303 Sol.
Tr. y; stem spiny H ± 1 m
- ✓ 33304 Grass
- ✓ 33305 Rub.
H, 1.2 dm; br. *red*; cor. wh
- ✓ 33306 Anthurium
on T

Km 18

Along r.r.

Same for

Rio Dagua, at end of highway, Buenaventura same for.

2/15-

along stream

Km 2

Km 5

- ✓ 33307 *Carludovicia*
Infl. or. un 9 Buena Vista: this bagua, at end of highway; ^{forest} along str.
- ✓ 33308 *Bromel.*
Br Ep.; br.; fls. y; lvs. horizontally streaked un 1
- ✓ 33309 *Melast. selosa*
Sh. 1.5 m.; st. or.; infl. pinkish r.
- ✓ 33310 *Henitelia*
- ✓ 33311 *Rub.*
tr. 15 cm. diam.
T, 8 m.; fr. purplish br; clusters
- ✓ 33312 *Rub.?*
T ± 10 m.
- ✓ 33313 *Glom.*
H 2 m., st. simple; fls. r.
- ✓ 33314 *Rub.*
J. fr. gray
- ✓ 33315 *Artium*
Ep. un 1
- ✓ 33316 *Rub.*
H. ± 80 cm. un 9
- ✓ 33317 *Monettia*
HV; cor. green!
- ✓ 33318
H ± 80 cm. stems in clusters; infl. distichous; fls. or. inf. pi.
- ✓ 33319 *Salvia*
H. up. lip. light blue, lower deep blue
- ✓ 33320 *Dryopteris* *Cyclodon* *Tricoma* var. *hirsuta* A.C. Smith
- ✓ 33321 *Melast.*
- ✓ 33322
S, 70 cm. fls. rich pi.
Melast.? un 1
- ✓ 33323 *Artium*
Ep. spikes purple un 9

along R. Bagua

- ✓ 33324 Melast.
H 1m; Fr. red
- ✓ 33325 Polypodium lance.
Rip. on tr.
- ✓ 33326 Brom.
Ep.; br. bright red; per. y
- ✓ 33327 Brom.
Ep.
- ✓ 33328 Cactus
Br. r.; ± 2m
- ✓ 33329 Vacc.??
T. calyx o ped. r; fls. y
- ✓ 33330 ~~Silene~~ Guania
K. V.
- ✓ 33331 Gesner.
Br. r; cor. y. Epiph.
- 33332 Guania
H stem prostrate
W; calyx r; cor. y
- 33333 Anthurium
Ep.
- ✓ 33334 Anthurium
- ✓ 33335 Melast. (Bauhinia)
H. ± 30cm; pet. o st. w
- ✓ 33336 Heliconia
Pl. 2.5m. br. red, y at base
- ✓ 33337 Calce. (Phytolophos?) Ph-24
Stipe 50cm, rest of leaf 3m or more; upl wh, base abn ^{sub} areolate
- ✓ 33338 Rub.
Sun T, edge of per; tube light gr, lobes purple br.
- ✓ 33339 Orch.
Ep. fr. only
- 33340 Tachinophora
H ± 1.7m.; per. y; pet. 60-80cm. L

along river ~~from~~
Buena Ventura, Rio Sagua, at end of highway; ~~from~~

2/15

Buena Ventura: ^{Agua dulce} with shore of bay; dense for.

2/16

- ✓ 33341 Moss
On lvs. of Rub.
- 33342 *Antennaria cordif.*
Spathes gr., spathe red (ter.)
- ✓ 33343 Rub.
Fl.; fr. light gr.
- ✓ 33344 *Danaea*
Ter.
- ✓ 33345 Melast.
- ✓ 33346 Selag.
Sh ± 2 m; fr. light gr., st. w.
- ✓ 33347 Fern
- ✓ 33348 Piper
S. 2-2.5 m.
- ✓ 33349 Commel? ~~Cyp.~~
Ter.
- ✓ 33350 Palm
Ph. 26
Slender tr. 10-15 m; prob. tree overtopping fr. in Ph. Sterile
- ✓ 33351 Palm *Oenocarpus?*
Fr. 2.5 m
Smooth tr., ± 5 m h, 12 cm diam. Sterile; sometimes with
- ✓ 33352 Liliif.
T ± 2 m; fls. light y
- ✓ 33353 Rub.
T ± 4 m; calyx deep purp (fr age), green (y); cor. w
- ✓ 33354 *Tococa*
S ± 80 cm
un-S
- ✓ 33355 Cucurb.
H V; cor. light green out, white in.
- ✓ 33356 *Antennaria*
un-S
- 33357 *Killipilleria*
On bank cut back from R. Sagua for m. Exposed
for ± 50 ft.

Buenaventura: Agua Dulce; dense for.

2/16

50 m
Córdoba: bank of R. Sagua, close to m.
(Top of P. 33, p. 11)

2/17

✓ 33358 *Marchantia*

33359 *Rhynchospora*

✓ 33360 *Piper*

H.

✓ 33361 *Paspalum*

✓ 33362 *Oryopteris*

✓ 33363 *Eleocharis*

33364 "

✓ 33365 *Selagin*

33366 *Polygala*

fls. pinkish blue

✓ 33367 *Gram*

✓ 33368 *Hydrocotyle*

lvs. H.; fls. greenish-wh.

✓ 33369 *Renealmia*

Ter. H.; st ± 1m up to lowest lvs.; lvs. distichous

✓ 33370 *Mandevilla*

HV; cor. pale y

33371 *Calathea*

Per. y

✓ 33372 *Sabicea*

S 1.5-2m; fls. blue

✓ 33373 *Peperomia*

lvs. H.

✓ 33374 *Jocora*

low S; fls. rich pi

Cordoba: wet bank ^{cliffs} of H. Dagua, along r.r.

2/17

ditch

wet bank

ditch

Wet bank

dens forest

clearing

dens for.

- ✓ 33375 ~~Crat.~~ *Sobralia*? low. apex; col. wh.
Ter. Sep. light gr.; 2 pet. ~~lvs~~ pink; lip whitish, pi-styl. yellow
- ✓ 33376 *Napsera*
H ± 60-70 cm; pet. pi. pinkish wh
- ✓ 33377 *Dryopteris*
- ✓ 33378 *Melast.*
H, ± 2 m; pet, stam style pi
- ✓ 33379 *Eurhachis quadrangulata*
S 1-1.5 m; cor. light pi.
- ✓ 33380 *Heliconia*
Br. bright red; per. deep y; infl. pendul
- 33381 *Gesner.*
Cor. light pi.
- 33382 *Bom.* Rub.
Sp. fr. (379a) Erect h, ± 50 cm high
- ✓ 33383 *Tococa*
S ± 2 m WV, ± 6 m.
- ✓ 33384 *Peperomia albifolia*
Gr dec. long
- ✓ 33385 *Coccoloba*
HV portulac; fr. bright blue
- ✓ 33386 *Marsipposiphium*
HV; fls. wh.
- ✓ 33387 Rub.
S cor. wh
- ✓ 33388 *Palicourea*
T 4-4.5 m; branches infl. red; cor. y
- ✓ 33389 *Melast.*
Slender sh.; fr. pi
- ✓ 33390 *Tridax*
Ter. h.;
- ✓ 33391 *Peperomia*
H, st. repent not base

Cratogeomys: clearing

dense for.

clearing
dense for.

clearing

dense for.

- ✓ 33392 Melast.
 S. sm. t. ± 3 m.; pet. pale pi; fr. deep pi
- ✓ 33393 Peperomia divaricata
 Ter.
- ✓ 33394 Miconia
 Slender t.; fls. wh.
- ✓ 33395 Marilhet
 Tall, branched l. fls. y-g
- ✓ 33396 Cissus
 HV; pet. red!
- ✓ 33397 Anac.
 T. br. wh or greenish w. spaces purplish br
- ✓ 33398 Rhyssoloma
 H. v.; fls. y
- ✓ 33399 Vanilla
 HV; tubs y g; pet. w
- ✓ 33400 Ruellia
 $\pm 60-70$ cm.; cor. pi
- ✓ 33401 Melast.
 H. elong. br.; cor. pet. magenta
- ✓ 33402 Zinnia
 V on tree; cor. pale pi
- ✓ 33403 Hibiscus
 H. v.; infl. pink w
- ✓ 33404 Ficus
 H
- ✓ 33405 Tradescantia
 Suc. H.; per. wh.
- ✓ 33406 Moss
 On Anthurium
- 33407 Orch.
 Ep.; per. seg. red
- ✓ 33408 Rub.
 Sm. tr $\pm 2-2.5$ m.; infl. pendulous

50+ 100 m.
 Cordoba: dense for.

2/17

clearing

Swampy in Jan

clearing

on fr. tree

in open

thickets

in ditch

dense for

✓ 33409 *Arac.*

Lep. on trees; lvs red ben. Sterile

✓ 33410 *Cycas*

✓ 33411 ?

✓ 33412 Moss
T ± 6m, 2cm. diam; fls. wh (on main stem)

On dec. log

✓ 33413 *Chamaedorea*

St. 7m to inf., Landerian; infl. brown.

✓ 33414 *Trichomanes*

Climbing TT

✓ 33415 *Melast.*

Slender sh

✓ 33416 *Dichorisandra*

E. H.

✓ 33417 Moss

On lvs. of 413

✓ 33418 *Gesner*

Ep. cor. whitish

✓ 33419 *Geonoma*✓ 33420 *Calathea*

Fls. wh.

✓ 33421 *Ayathia*

Caulis ± 3m; fronds 2m.

✓ 33422 *Leiphanium*

Saprop. Cor tube yellow, lobes pale for out; blue in

✓ 33423 *Isu. reticulata*

Ter.; cor. wh.

✓ 33424 *Gesner*

Ter. cor. wh.

33425 *Manisuris beccarii*

Ter.

Cordoba: dense for 50-100 m.

2/17

H.S.

H.S.

m-k

~~33437a~~ *hirs.* = 33437

33426 *Chamaedorea*

✓ 33427 *Melast.*

Sm Tr

✓ 33428 *Besleria*

Ter. Herb \pm 80 cm. br n.

✓ 33429 *Nicotia*

~~Cyrtos~~

✓ 33430 *Cyrtos*

33431 *Hep.*

on tt.

✓ 33432 *Asplenium*

on tt

✓ 33433 *Moss*

on tt

✓ 33434 *Leucobryum*

on tt.

✓ 33435 *Diolema lucida*

Pet. pi

✓ 33436 *Moss*

On Arac.

✓ 33437 *Arac.*

Ter.; sterile

✓ 33438 *Vriarteia?*

sterile

✓ 33439 *Moss*

on tt

✓ 33440 *Mimodendron grande*

Ter. H.

✓ 33441 *Aulium*

On soil

33442 *Gymnosiphon*

Saproph. per. ground wh

Ardisia; dense fr., 50-100 m.

2/17

u

- 33443 Burmannia
Saproph.; fl. white
33444 Acanth.
T. H.; fr. gr.
33445 Arac.
Ep.; fr. green
33446 Rub.
Sun. tr. fr. light gr.
33447 Coenogonium
Out
33448 Brom.
Ep. br. red.; per. fr.
33449 Brom.
Ep. br. red.; per. y
33450 ~~Arac.~~ Moss (33437a)
~~Ter. spathes w. red. Out~~
33451 Costus?
Ter; 2' diam. in; infl. red
33452 Brom.
Ep. br. r
33453 Brom.
Ep.
33454 Brom.
Ep.
33455 Brom.
Ep. H
33456 Aethurium
33457 Moss
On lvs of 3456
33458 Eleocharis
33459 Rynchospora

un. Cordoba, 50-100 m; dense for.

417

un-3

un-1

un

un

Open marsh

Open hillside

- 33477 *Psychotria viridis*
S ± 2 m; fr. r.
- 33478 *Sabicea*
Bracts scarlet; cor. white 7. S ± 1.3 m
- 33479 *Siparuna grandifolia*
S, elong. br.; fls. wh. on main (stem)
- 33480 *Acrostichum*
HV; fr. bright r.
- 33481 *Passiflora vitifolia*
HV So p. scar. outer fil. red; inner wh.
- 33482 *Paspalum trifasciatum*
HV sterile
- 33483 *Rub.*
T, ± 3 m; fls. y
- 33484 *Epiphyllum*
Ant.; fls. bright purple
- 33485 *Heliconia*
Bract red at cluster of faces, yellowish green ± 1 m. high; lvs. 3 m long; fls. red
- 33486 *Gesner. communis*
Ter. cor. light pi
- 33487 *Polypodium*
Kf. on tr
- 33488 *Arauc. ?*
Ter. sterile
- 33489 *Piper*
H, suffrutescent ± 1 m
- 33490 *Piper hirta*
S elong br ± 1.5 m
- 33491 *Piper nigrum*
H 80 cm; \pm suffrutescent
- 33492 *Pilea inaequalis*
Ter. & on tr, repent
- 33493 *Gesner. Peperomia*
H ± 1 m; fls. greenish white

Bahia Solano: dense forest along Chiriquita Road, so. of Ciudad Nueva
edge of dense forest

un

1 K

per. olive green

un

un-15

18-

/ 501a *Carlud.*/ 33494 *Gesner.*
Psychotria paniculata

S ± 1m; fls. greenish wh.

/ 33495 *Psychotria paniculata*
S ± 1m; nipl. pendulous/ 33496 *Tectaria trifolia*

Ter.

/ 33497 *Polygodium*
Ref. on T./ 33498 *Diparuma*
S with elong. br.; pet. wh./ 33499 *Diplazium*/ 33500 *Gesner. aurantiaca*

Lvs red at apex & along margin; cor. bright y

/ 33501 *Carludovica*

Stem 20cm.; nipl. at base

/ 33502 *Heliconia*Blade 2m l.; pet. 1.5m.; ^{bracts deep red} ~~fls. red~~, ^{pendulous} ~~pendulous~~; ^{bright y} ~~bright y~~/ 33503 *Erythrina*

Small tree, ± 5m; trunk 15cm. diam., erect, unbranched

/ 33504 *Melast.*

H 1-2m. fr. pi.

/ 33505 *Grass*

"Orquidilla"

/ 33506 *Adiantum*/ 33507 *Tectaria*/ 33508 *Brachistia*

Cr. gr. H ± 2m.

/ 33509 *Besleria*

S ± 1.5m br. red.

/ 33510 *Dioscorea*

Bahia Solano: dense for. along throb. Tacta

1/2m

/33511 ⁵⁴¹/33511 *Dryopteris*/33512 *Besleria atalipes*Er., unbranched sh. ± 2 m; fls. r./33513 *Trichomanes*

Rep. or tt

/33514 *Psychotria macrophylla*

H up to 1 m

/33515 *Cosmibuena*

Sun. t 3-4 m; branches drooping

/33516 *Asplenium*

On trees; lvs in rosette

/33517 *Trichomanes peltata*

On tt.

/33518 *Piper elongata*S ± 2 m spike red./33519 *Geonoma*/33520 *Clidemia*

Bi. fls. wh

/33521 *Piper*

It.

33522 *Piper*

It

/33523 *Pilea gallowayana?*Ter. herb; fls. \pm 6 cm./33524 *Rub*T ± 3.5 m; fr. wh./33525 *Siplegia*

Ter.

/33526 *Polypodium*

Ter.

/33527 *Pteris*Bahía Solano : same for. along *Arickia Lella* 2/22un

33528 *Anthurium*

Ter. Spathe wh.; Spadix pi

33529 *Diplazium*✓ 33530 *Lepidodermis*

Ter.

✓ 33531 *Cestrum*

H ± 1 m. Br. yellowish

✓ 33532 *Aphelandra*

Br. bright r; cor. y. Sh ± 75 cm, stem slender, straight

✓ 33533 *Gesneria*

Sup. H. br. r., cor. pi.

✓ 33534 *Pilea carolinensis*

On tree

33535 *Pteris* (juvenile?)

un-ll.

✓ 33536 *Relbunium*

Prostrate on bank of stream

✓ 33537 *Peperomia*

On tree

✓ 33538 *Hololechis*✓ 33539 *Compositae*

stems ± 2.50 mts.

✓ 33540 *Henrietta*

Stem ± 4 m; pet. wh.

✓ 33541 *Polygodium* *Piper* (sub-erect)

Ter. 3-4 cm (5-14) (514a)

✓ 33542 *Fern*

Br. ± 1.8 m.

✓ 33543 *Trichomanes*

On branches

✓ 33544 *Diplazium*

Bahia Solano: down for. along th. Tecla

2/22

- 33545 Moss
On *Tectaria trifolia* frond
- 33546 Moss
On *Sepium* leaves
- ✓ 33547 Moss
On dec. log
- ✓ 33548 Moss
On arid leaf
- ✓ 33549 Fern.
Ter. Br. greenish wh.
- ✓ 33550 Piper
N 2.5-3 m.
- 33551 *Cecropia*
- ✓ 33552 ?
T ± 4-5 m.;
- ✓ 33553 *Dryopteris*
- ✓ 33554 *Lasiacis*
- ✓ 33555 *Costus*
± 2 m.
- ✓ 33556 Piper
S 2-2.5 m, strictly dichotomous branching
- ✓ 33557 Sol.
S ± 2.5 m; fl. black
- ✓ 33558 *Besleria*
Cr. or.
- ✓ 33559 *Diclyptera*
H ± 50 cm; cr. fl.
- ✓ 33560 *Anac.*
- ✓ 33561 *Opur.*
Sm. th. fr. or.

Calva Soland.: dense for. along E. fella

2/22

clearing

thickets

dense for.

- 33562 ?
WV fr. red
✓ 33563
S; pendant fruiting branches; fr. y; calyx gr.
✓ 33564 *Campelia*
H # 80-100 cm.
✓ 33565 *Heliconia*
Lvs ± 1 m; br. r.; yellow toward base; fl. y, ^{green at apex} ~~ground~~
✓ 33566 *Cocoba*
T ~~± 6-8 m.~~ 6-8 m.
33567 *Pavonia*
H; fls. wh.
✓ 33568 *Piper*
S # 2.5-3 m.
✓ 33569 *Passiflora chelidouea*
H V, sterile
✓ 33570 *Peperomia*
Ep.
✓ 33571 Rab ?
"Yarba-buenilla"
Crotalaria mordax ^c *mordax* de culm. ± 50 cm. ^{wh. fls.}
✓ 33572 *Cosmos*
~~erect, simple, suffrutescent. 2-2.5 m.; infl. dependent~~
± 2 m; fls. red
33573 *Aphelandra*
Stem erect, simple, suffrutescent; 2-2.5 m.; infl. ^{Ph.} ~~dependent~~
erect, ± 25 cm; fls. y. (cf 522)
33574 *Dalechampia*
H. V.; bracts ashy gray
33575 *Eupatorium*
Herect, ± 2 m; florets pinkish w
33576 *Aphelandra*
H 80-150 cm.; br. r.; cor. rich pi
33577 *Peperomia*
Ep.
33578 *Alternanthera*
H. ± ~~60~~ 80 cm; lvs. red beneath; infl. wh

Batua Solam: dense for. along Ch. Lela

2/22

~~Heck's~~ Clearing

sense for.

Cleaning

Genes for

Clearing

Clearing

edge of woods
~~Desert~~

Emb. Seca (dry stream bed)

Dense for. near H. Seca

dearing

- ✓ 33579 *Piper*
S ± 2 m.
- ✓ 33580 *Orae*.
Epip.
- ✓ 33581 *Adiantum*
- ✓ 33582 *Tournefortia*
S; stem simple or few-br., ± 1.5 m; cor. W
- ✓ 33583 *Mauritia*
H.V.
- ✓ 33584 *Solanum*
S ± 2.8 m; cor. wh., anthers y
- ✓ 33585 *Piper celtidif.*
S ± 3 m.
- ✓ 33586 *Calceitron*
H.V. cor. W.
- 33587 *Centropogon* Un-16
WV; cor. r.
- ✓ 33588 *Pityrogramma sulphurea*
~~or~~
- ✓ 33589 *Acanth*
Er. suff. herb ± 1 m; cor. pinkish blue
- ✓ 33590 *Chamaefistula* Un-8
S ± 3 m; pet. light y
- ✓ 33591 *Dryopteris*
- ✓ 33592 *Nelost.*
WV; fr. reddish
- ✓ 33593 *Canna*
H ± 3 m; lvs up to 80 cm; per. red.
- ✓ 33594 *Paspalis*
HV
- ✓ 33595 *Begonia*
Succ. HV, drooping branches; pet. wh

- Balua Solano ^{near th. sea} ~~clearing~~ 2/22
- Scuse for.
- Bank of stream
- East of Ciudad Mitis; Clearing 2/23
- edge of for.
- Clearing
- Edge of for.
- Clearing
- Edge of for.
- open stream-bed (thick. Felito)
- Edge of for.

- ✓ 33596 *Ipomoea*
H V; cor. bright pink
- / 33597 *Grass*
H; ± 2.5 m.
H; along. fr.,
- / 33598 *Justicia*
H ± 50 cm; cor. light blue
- ✓ 33599 ~~*Amorpha*~~ *Moss*
On log of 600
- / 33600 *Amorpha*
T ± 10 m; ♂ wh.;
33601 *Peperomia*
Dependent on tt.
- / 33602 *Begonia*
H.
- / 33603 *Theobroma* See Separate Fruit Collection
T ± 8 m; br. reflexed; fls. wh.; fr. r.
- / 33604 *Platyalis*
H; cor. y
- / 33605 *Phaseolus*
H V; fls. y g.
- ✓ 33606 *Grass*
Stems rootstock. Cult.
- / 33607 *Phaseolus*
H V; fls. purple & wh.
- / 33608 *Solanum*
H ± 30 cm; cor. wh
- / 33609 *Pinus*
On log of 600
- / 33610 *Calathea*
Fls (incl. pet.) ± 2.5 m.
- 33611 *Cean.*
H; fls. pi.
- / 33612 *Adiantum*

Bahia Solano: open stream bed

2/23

clearing

edge of fr

do

open stream bank
open stream bed

dense forest

open stream bank
open stream bed

"Basto Jazguá"

open stream bed.

" " bank

dense forest

Pl 41

un K

- ✓ 33613 Melast.
H with long slender stem; lvs. red. base
- 33614 Lab. Commersonia?
T 15m; fr. only
- ✓ 33615 Fuga
T \pm 10m.
- ✓ 33616 Sabicea
S; bracts greenish pi; cor. pi. dist., base prop
- ✓ 33617 Piper
S \pm 2-2.5 m.
- ✓ 33618 Psychotria
H \pm 2m; fr. wh.
- ✓ 33619 Selag.
- 33620 Trichomanes punctatum
- 33621 Psilocarya
H
- ✓ 33622 ~~Dryopteris~~ Cyclothem Arisaema var. chorone A. K. Smith
- ✓ 33623 Chamaedorea
Tr. \pm 2.3 m, 10 cm. diam; infl. at base of lvs. \pm 1m
- ✓ 33624 Neumelia
Caulis \pm 2m, 7 cm. diam.
fr. 7.5 dm. long.
- ✓ 33625 Danaea
- ✓ 33626 Melast. Un. G
- ✓ 33627 Clavija
Sm. \pm 3m; buds green wh.; ~~the~~ trunk straight
- 33628 Anthurium
Ter. Herb; spathe w. Pl. \pm Ph. 3.9 at Kilauea
- ✓ 33629 Vanilla
H V.

Bolus Solano: dense for.

2/23

edge of for.
open stream bed

dense for.

open stream bed

Edge of for.

- ✓ 33630 Gesner.
Hv.; cor. wh.
- 33631 Fungus
on log
- 33632 Fungus
ss.
- ✓ 33633 Peperomia
st
- ✓ 33634 Tetracera
WV climbing on trees
- ✓ 33635 Condaminea corymbosa
S
- ✓ 33636 Lecythisdacea
Fruit found on ground
See Separate Fruit Collection.
- ✓ 33637 Orch.
5 pet. pi.; lvs. wh. not proc
deep purple dist. into lvs. y at
Ter; stem simple ~~1.7~~ ± 1.5 m. | center; col. wh.
- ✓ 33638 Piper
St ± 2 , 5 per.; br. div.
- ✓ 33639 Phor.
Purp.
- 33640 Hyptis.
Cor. pinkish wh., with small purp dots
- ✓ 33641 Valeriana corbif.
Cor. w
- 33642 Melast.
H \pm sup. pet. mag.
- 33643 Stylosanthes
Pet. y
- ✓ 33644 Castilleja
Br. red.
- 33645 Euph.
- ✓ 33646 Dryopteris
H \pm sup. \pm 60 cm; fls. & st. mag. pi

Bahia Solano: open thicket

2/23

open stream bed

thicket

edge of for.

dense for.

San Antonio ~~1.7~~ Thicket 1900 m.

2/26

Partially shaded bank

/33647 *Louania*

Roots separate. Cf if 2 things here

/33648

Thib.
wood. inS \pm 60 cm; fr. wh.

/33649

*Eup.*S \pm 1 m; fl. & styles pink blue

/33650

~~*Louania*~~ *Cinchona*S, simple stem; ~~stems~~ \pm 2.5 m; inf. at apex; cor. green

/33651

~~*Thib.*~~ *Eucalyptus*S, bush sh \pm 50 cm; fr. bright green

/33652

Salvia paleonifolia

H.; cor. rich blue

/33653

? *Viola*S \pm 2 m; fls. wh.

/33654

Viola

fls. wh.

/33655

Arce.

T Sp. or Sp. wh.

33656

Moss

On stems of 655

33657

Polypodium *new* *later**Ep.*

33658

*Hep.**Ep.*

/33659

Meriania

"Sieite cueros" or

/33660

J \pm 2 m; pet. mag.*Psychotria*T \pm 5 m; cor. green

/33661

*Besleria*S, T \pm 4 m; cor. r.

/33662

?

T \pm 5 m

/33663

Thib.

T 3-4 m; fr. wh.

San Antonio 1900 m. ^{wooded bank} ~~edge of woods~~ (bank.)

2/26

Dense for. \pm 2000 m

- /33664 Brom.
 Sp. Per. bright blue
 33665 Moss
 On lvs 664
 33666 Eleocharis
 Sp. dr. only
 33667 Aster
 Ch.
 33668 Melast.
 T \pm 5 m; fls. pi.
 33669 Gesner
 T; cor. r, lobes purple at center, y at margin.
 33670 Gesner sericea
 T; cor. r. stamens
 33671 Acauth.
 H \pm 1 m; cor. pinkish wh, lobes deeper pi
 33672 Senecio. Corp.
 H V; rays y
 33673 Phyllanthus
 slender upright \pm prostrate branches or bank
 33674 Eup.
 S \pm 2.5 m; florets wh
 33675 Baccharis?
 S 1-1.5 m; infl. pinkish wh
 33676 Grass
 along cr.
 33677 Calceolaria
 H \pm 40 cm; cor. y
 33678 Acauth
 Fr. only
 33679 Avenia
 33680 Rub.
 Tree \pm 6 m; flor. branches red; lvs. y

San Antonio, 2000 m.; dense forest

2/26

wooded bank edge of woods (bank)

(Monte Frio) 20°C
 El Valle: Yanaconas ~~La Victoria~~, 1700-1850 m. 2/27
 open bank
 dense forest.

- /33681 *Psychotria cuspidata*
 Sh. or succ. tr., up to ^{2.5} m; fls. ~~white~~ wh.
- /33682 *Psychotria*
 tree, 4-5 m; fls. wh.; lvs. smooth; fr. red.
- /33683 *Arac.*
 Ep.; ~~fr.~~ bracts red at base.
- /33684 Moss
 juv.
- 33685 *Peperomia quadrifolia* "Cuadrillito" unl
 Ep. Medicinal para la gonorea
- /33686 *Piper*
 Sh. \pm 2.5 m.
- /33687 *Rub.*
 T \pm 5 m; fr. wh.
- /33688 *Rub.*
 Infl. branches r.; fr. sm blue. T \pm 3 m. 2
- /33689 *Arac.*
 Ep.;
- /33690 *Arch. ?*
 \pm 30 cm.
- /33691 *Arac.*
 Ep.
- /33692 *Polthomorpho* "Hoja de ~~Santana~~
 \pm 4 m Medicinal. Santamaría"
- /33693 *Rub.*
 Herb; fr. blue
- /33694 "Hoja de la ^{Man} sangre
 Herb. \pm 1 m.
- /33695 *Piper* "Cordoncillo"
 S \pm 3 m.
- /33696 *Peperomia*
 Ep. fr. with red red lines
- /33697 *Hern.* "Doradilla"

Yanacouas

done for.
1700-1850m.

227

- ✓33698 Orch.
Ep. ± 1.5 m. ~~Pet 5 pet. y. red at center~~ ^{fls. y. red at center}
- ✓33699 Arac.
Apo.
- ✓33700 Oncidium
5 pet. y, lip red, y at center. Ep.
- ✓33701 Fern *Thelypteris piloso-hispida* (Hook.) Alst. det. A.R. Smith, 1978
 ± 2 m.
- ✓33702 *Passiflora tryph.*
H.V. fls. wh.
- ✓33703 Elapl.
On tree
- 33704 Cyper. un
- 33705 *Amyclum*
Ep. un
- 33706 Fern un
- ✓33707 Moss
- ✓33708 *Piper lorei*
Sh ± 4 m; spikes ± 50 cm; lvs. like an *Antennaria*
- ✓33709 *Lindsaea*
Ter.
- ✓33710 Moss.
On dec. branches
- ✓33711 *Cyathra?*
Caudex ± 9 m. high, 10 cm. diam; lvs. ± 6 m. long
Ph-54
- 33712 *Cecropia*
T ± 14 m; lvs. wh. beneath. un
- ✓33713 Gesner.
Stem simple; fls. maroon.
- ✓33714 *Psychotria nervosa*
H. Pr. black, very lustrous

Yanacomas 1700-1850 m. ^{dense for.}

2/27

- ✓33715 *Lycopodium*
Rastrera
- ✓33716 Moss.
On dec. branches
- ✓33717 Fern
Growing perpendicular to the ground
- ✓33718 *Panicum*
± 50 cm.
- ✓33719 *Agrostis*
~~Fabo~~
- ✓33720 *Tabernaemontana*
Herb, ± sup. 60-70 cm; fls. ~~light blue~~
- ✓33721 *Vernonia*
Tall vine; heads lilac
- ✓33722 *Viburnum*
Tree ± 6 m; fls. wh.
- ✓33723 *Uncaria cuspidata*
Tree 6-8 m.
- ✓33724 *Wernmannia*
T ± 8 m; fls. wh.
- ✓33725 *Melast.*
PB ± 2 m; ^{suffr.} stem erect; fls. in axils of lvs.
- ✓33726 *Sciadoplychum*
Tree ± 15 m
- ✓33727 *Tsoloma*
H. fls. r.
- ✓33728 ~~Moss~~
Bright green; ~~on~~ on dec. logs.
- ✓33729 *Cubus*
H. V. Fls. wh.
- ✓33730 *Befaria*
Tree ± 5 m; cor. reddish pi. (Some plants only 1 m)
- ✓33731 *Cordia*
S ± 1.5 m; fls. wh.

Yauaconas, 1700-1850 m; dense forest

2/27

~~Open~~

Open hillside

Edge of wood

dense for.

~~Clearing~~
Clearing

- 33732 Sol.
 Herb; fls. lilac; lvs. very young
 33733 Melast. "Montuno"
 8 ± 1 m;
 33734 Melast.
 ± 1 m.
 33735 Sol. Melast.
 fls. $\frac{3}{4}$ S. 50-2 m.; fr. gr. with lilac lvs.
 33736 Sol.
 S. 50-2 m; fls. y; fr. gr. with lilac lvs.
 33737 Tibouchina
 H; stem simple; cor. purp.
 33738
 H; fls. wh.
 33739 Stenophyllus
 H.
 33740 Pisonia araca. "Guayabo"
 T
 33741 Fern.
 33742 Calliandra carbonaria
 T ± 7 m; stem bright red.
 33743 Hib. longifolia
 Ep.
 33744 Elaeagia
 T ± 7 m; no fls.
 33745 Ficus
 T ± 5 m.
 33746 Selag.
 33747 Paspalum
 33748 Ruprechtia polyphylla

Yanacunas, 1700-1850 m; clearing

729

open hillside

Yanacunas (El Silencio) 1900-2200 m.
 dense for.

728

Barrina
 "Barrina de Tacho"

open hillside

fruit edible

dense for.

Open hillside

33749 *Paspalum*33750 *Digitaria*

"Orquestra"

33751 *Gesum*

H ± sup. 30cm.; fls. r.

33752 *Centropogon*

HV; cor. deep pi.

33753 *Gesum*

Er. S; 1-1.5m; cor. r.

33754 *Aira*un33755 *Saurauya*

T, ± 9m; pet. wh

fruit edible

33756 *Sisyrinchium*

Per. pale y

33757 *Oxalis*

Fls. lilac.

un33758 *Rubus glaucus*

WV; pet. wh; fr. r

33759 *Gesum. atrolineata*

H; fls. red, with black lines within

33760 *Grass*33761 *Sol.*stem ^{sub} repent; on ~~fallen~~ fls. wh.

"Papasiglati"

33762 *Hydrocotyle*

Repent h; fls. greenish wh.

33763 *Potentilla*

Repent H; fls. y

33764 *Acalypha*

T ± 5m.

33765 *Plantago*

Yanacouas: El Silencio; open hillside

7/28

dense for.

* potero

dense for.

potero

dense for.

potero

(767a)

767b

33766 *Sanicula liberta* C. O. S.33767 *Gesner. falcata*

H, cr; cor. r.

33768 *Begonia*

H; 30 cm; fls. wh.

33769 *Peperomia*

Very small epip.

33770 *Orel.*33771 *Peperomia nigra*33772 *Asplenium*33773 *Elag.*33774 *Lasiacis*33775 *Orel.*

Ter. 5 ped. green; lvs. wh; col. deep gr.

33776 *Peperomia*33777 *Rub. angustifolia*

T; fr. only

33778 *Polypodium costaric.*

Fr. intr.

33779 *Hep.*

wet soil

33780 *Lichen*

Bright green above, white beneath

33781 *Solanum*

Er. H, ± suff., ± 1 m.; cor. y.

33782 *Sol.*

N. Er. 50-1 m; cor. wh.

Yanacouas: El Silencio; demer.

2/28

- ✓ 33783 *Uncinia*
Ter.
- ✓ 33784 *Burmeisteria*
Er. 5 ± 1 m; cr. green
- ✓ 33785 Moss
On lvs. of 784
- ✓ 33786 Orch.
Refract. orth; fr. only
- ✓ 33787 *Polystichum*
- ✓ 33788 *Asplenium*
Ter.
- ✓ 33789 *Asplenium*
- ✓ 33790 Elaph.
On fallen t
- ✓ 33791 Hep.
with 790
- ✓ 33792 *Chamaedorea*
Trunk ± 2.3 m to infl.
- ✓ 33793 *Lasiacis*
high climbing
- ✓ 33794 *Arac. rubra* *Spathiphyllum*
Ter.
- ✓ 33795 *Peperomia*
Ter.
- ✓ 33796 Piper
 5 ± 1.5 m.
- ✓ 33797 *Besleria*
On H \pm sup.; erect st. ± 1 m; Cor. 1, with white hair
- ✓ 33798 orch. *Pleurothallis*
Ep. 3 ft. red, darker r. at center; 2 pet lvs. ocol. y
- ✓ 33799 Piper
S; styles purple

Yaucoconas: El Silencio; dense forest

2/28

un-S.

- 33800 *Paullinia*
High-climbing, woody vine; spikes wh.
- 33801 *Gesner. elongata*
H ± 1.5 m; stem erect; cor. r.
- 33802 *Nyssa*
T ± 8 m; fls. w
- 33803 *Magnoliaceae* "Cabralo"
T ± 30 m; fls. sessile, purple; stems wh.
- 33804 *Bactris* "Chontilla"
Trunk ± 2.5 m to infl.
- 33805 *Bactris* "Sanea de araña"
T, ± 15 m; fr. only
- 33806 *Gesner.*
Subscandent herb; lvs. only
- 33807 *Marchantia*
On bank
- 33808 *Cerastium* u. v.
- 33809 *Fungus*
On tt
- 33810 *Lichen*
On tt
- 33811 *Asplenium*
On tt
- 33812 *Diplazium*
Short stout thick caudex; fr. ± 2 m.
- 33813 *Marchantia*
On wet bank
- 33814 *Moss*
With 813
- 33815 *Polytrichum* sp. m
On moist bank
- 33816 *Cauliophora*
Er 5, 80-1.2 m.; fls. red

Yanacouas: El Silencio; dense for.

2/28

potens

dense for.

33817 *Diplazium*33818 *Gesner.*H \pm 80 cm.33819 *Elaeagn.*

On fallen TT

33820 *Paspalum praecox*H \pm 1 m.33821 *Cucurbit*33822 *Carthagenia*33823 *Heliconia*

Br. red; fr. y; infl. erect.

33824 *Piper*S \pm 2 m.33825 *Diplazium*33826 *Dryopteris* *Thelypteris pilosa hispida* (Hook.) A. L. S. det. A. R. Smith33827 *Gesner.*H \pm 1 m; erect; cor. bright r.33828 *Gesner.*

H cor. r.

33829 *Mussaenda*

On log; deep red br.

33830 *Mussaenda*

On logs

33831 *Pilea*

Ter; sterile

33832 *Phyllanthus*

S, 20-60 cm; fls. greenish y.

33833 *Arac.*Petiole r, with wh. bands; lvs deep gr., white
along veins

Yaucoas: El Silencio; dense for.

2/28

75104

- 33834 *Hsuea*
 Drooping from trees
- 33835 *Geum*
 H. fr. wh.
- 33836 *Thib.*
 Ep.; buds red out.
- 33837 *Elaeagnus* U-15
 Ep. fr.
- 33838 *Anthurium*
 Ep.; sp. pink
- 33839 *Anthurium* U-15
 Ep.
- 33840 *Moss*
- 33841 *Orchid*
- 33842 *Orchid*
- 33843 *Polybadi* U-15
 Out.
- 33844 *Fern*
 Very common at this alt., but more fr.
- 33845 *Bromel.*
 Ep. buds deep green at apex
- 33846 *Alchornea*
 T 10-15 m.; fr. deep gr.
- 33847 *Myrt.*
 Fr. wh. T \pm 15 m.
- 33848 *Visinia rufescens* "Laere"
 T 3 m; ind. reddish
- 33849 *Verbena* "Verbena"
 N. for typhoid fern
- 33850 *Grass*

Yanaconas: El Silencio, dense forest

2/28

2000
7500 m.Yanaconas: near school
edge of woods
open fields

2/3/1

33851 *Papanea guianensis*
T ± 4 m.

33852 *Paucic*

33853 *Asoloma*
Erect h, ± 1 m; cor. r.

33854 *Cephea*
Fls. pinkish blue; very common

33855 *Paspalum*

33856 *Cucubora* Ph 56 Ph "Cassareli"
T ± 8 m.; cor. wh.

33857 *Eleocharis*
Marshy ground

33858 *Nymphaea*
In On bog

33859 *Tournefortia*
S 2.5-3 m; fls. & fr. wh

33860 *Tropaeolum*
HV; pet. bright r.

33861 *Browallia*
H; cor. bright bl.

33862 *Clusia*
T 6-7 m.

33863 *Liabum*
H erects ~~1~~⁶⁰ - 1 m; florets y

33864 *Weinmannia*
S ± 2.5 m; fls. wh.

33865 *Tigridia javana*
H.

33866 *Desmodium*
HV; fls. bright bl.

33867 *Clidias*
Infl. wh; S with along. br.

Yandoua: near school; Thales

3/1

bank

open hillside

Along stream

Dense forest ± 2000 m.

El Valle: Saladito, ± 1500 m.

3/2

San Antonio, 2200-2350 m.

bank along trail

dense for.

bank along trail

dense for.

bank along tr.

Tulipan

u 15

u 16

- 33868 *Sobralia* U
Ter ± 80 cm; per. wh.
- 33869 *Elleanthus*
Ter, ± 80 cm; br. pi; per. (buds) wh
- 33870 *Epilobium* *gumbriatum*
Ter; 5 pet. wh or pinkish; ^{lip cream} few spotted purpl; ^{2 spots}
- 33871 *Begonia*? sub.
Ter; pet deep pi to r; ± 50 cm.
- 33872 *Thib.*
Br. purp. cor. wh at base & apex, pi at ~~center~~ middle
- 33873 *Fraxos*
On bank, dull gr. above, white below
- 33874 *Psychotria* u-1
S ± 1.5 m.; cor. rich purple
- 33875 *Clusia* *bravissima* u
T, 5 m; buds cream
- 33876 *Disterigma*
S, much branched, branches hanging over shrubs; ^{br. pi.} ~~leaves~~
- 33877 *Rub.*
T ± 8 m fr. only
- 33878 *Anthurium* u-b
Ep.
- 33879 *Och.* u-1
^{stemless} Ep; 5 pet. pt; lip & wh, y-g at apex; col. wh.
- 33880 *Thib.*
Ep; long br.; calyx & cor. below deep pi, cor. above ^{wh}
- 33881 *Gesn. rugosa*
Br. r; fr. wh.
- 33882 *Arch*
- 33883 *Ep.* *per. greenish brown*
Stelis
- 33884 *Ep.* *fr. gr.; 3 pet. deep pi, lip & col. gr.*
Arch
Ep. sterile?

El Valle: San Antonio, 2200-2350 m. 31.2
Rhinobato

roadside bank

dense for.

± 710065 .

- 33885 *Hymen.*
Drooping on TT.
- 33886 *Myrsin.*
T 5-6m; cor. pi, spotted
- 33887 *Polypod.*
Ep.
- 33888 *Polypod.*
Ep.
- 33889 *Acauth*
H Br. pi.; cor. wh, unspotted
- 33890 *Asplen.*
Ep.
- 33891 *Burmannia*
H; cor. gr.
- 33892 ?
T $\pm 15m$; calyx very fleshy; fls. r. fr. r.
- 33893 *Gesner.*
H $\pm 80cm$; cor. r.
- 33894 *Anthurium*
Ep.
- 33895 *Gesner. sericea*
Ter; cor. deep pi.
- 33896 *Och.*
Ep; buds reddish
- 33897 *Platan.*
- 33898 *Myrsin.*
T $\pm 6m$; trunk 8cm; fls. wh.
- 33899 *Dryopteris* *Thelypteris lepicurii* (Hook.) Tryon var. 1. det AR Smith 1976
- 33900 *Polytrich.*
On dec. TC
- 33901 *Hep.*
DD

El Valle: San Antonio, ^{land for} 2200-2500m

3/2

Unk

U-1C

- 33902 Polypodium
cl
- 33903 Amyclium
sp.
- 33904 Bambusa
Long-climbing vine; sterile
- 33905 Gesner.
Ter. \pm 60 cm; br. y.
- 33906 Orch.
Ter. 3 pet with wh. line, y apex, canine base; ^{col. greenish y} ^{lit yellow} ^{with canine line}
- 33907 Dyplosia
- 33908 Policonia
Sm tr, \pm 3 m; branches infl. blue; cor. ^{bright blue out} ^{light blue} ^{lobes green}
- 33909 Anethum
Sp. apath. wh; spad. reddish pi
- 33910 Chamedorea
Trunk \pm 2 m.
- 33911 Brom.
Sp; fls. ~~bright blue~~ of 65 (64+) bracts red-brown
- 33912 Brom.
Sp. Bract r
- 33913 Carludovicia
Sp. Ter. \pm 3 m; fr deep pi
- 33914 Gesner.
Sp; br. r.; buds greenish-y; fr. white
- 33915 Piper
T \pm 4 m.
- 33916 Peperomia
Ter.
- 33917 Cleome
H \pm 2 m; fls. purplish
- 33918 Anethum
sp.

U-1C

San Antonio, 2200-2300 m, dense fr.

3/2

U-9

U-9

- 33919 Polygod.
Rep. on TT
- 33920 Gesn.
Ep.; br. r.
- 33921 Bonarea
H. V. ^{glab.} ~~triglo~~ - climbing; flt. red, ^{with large purple spots} dec. of toward of claws.
- 33922 Mimosa florib.
Stem. pi.; 5 ± 2 m, branches along
- 33923 Lantana
Suffrutescent. 30-1.5 m; cor. wh, pink-tinged
- 33924 Acalypha
T ± 5 m.
- 33925 ?
T ± 8 m; fr.
- 33926 Sol.
Cr. S ~~±~~ 1 m; fr. purplish-black
- 33927 Rynchospora
- 33928 Euph.
T
- 33929 Samaya
T ~~4-5 m~~ 3-4 m.
- 33930 Tillandsia
Ep.
- 33931 Phyllanthus
H; fls greenish
- 33932 Asplen.
Ep.
- 33933 Melast.
T 3-4 m.
- 33934 Hymenoph.
Drooping from branches
- 33935 Centropogon
S 1.5-2 m; cor. or, red apex

San Antonio; dense for.

3/2

on inside (only 1).

thickets

dense for.

33936 *Nelost.*S. ± 2 m; pet. w, stem y

33937 Moss

Drooping from branches

33938 Begonia

Shrub, 30-50 cm; pet. wh

33939 Alsophila

Caudex short, subterranean; fr. 5 m. l., ^{incl. stipe} ± 2 m.33940 *Ph. 1*

T 7-8 m; cor. wh

33941 orch.

u-1

Ter; fl. wh

33942 *Chamaedorea*

=62 Ph. 1 (with S.)

Shrub, ± 8 m33943 *Chamaedorea*

=63 Ph. 2

Shrub ± 8 m; trunk ± 9 cm diam.33944 *Chamaedorea* ^{prostrata} *dryanderi* var. =64 Ph. 3Slender tree, trunk ± 2.5 m, 2-3 cm diam

33945 " usp.

usp. ph

Slender tree, trunk ± 2.5 m high

33946 Moss

On dec. log.

33947 Inga

"Guabo parero"

T ± 10 m 8 m; Stam. wh."El Hatico," Hacc. of Dr. Molino Garcia, 2 Km. n. of Palencia
Open

3/5

33948 *Neltuna peruviana*

un Ph-69

Young tree, intro.

33949 Inga

"Guavino" "Guabito"

woods

T ± 5 m; st. wh

33950 orch.

Lip. gr. out, wh or pi-stip. in

Ep. 5 pet. gishy, densely lined in with deep pi,

col. green

33951 *Commaceae*H. ± 2 m; br. y, becoming reddish if per. fresh leaves, reddish after33952 *Croton* young? ¹⁷⁻Sh. a sent ± 2.5 m,

33956a. *Piper*
SE 2m.

33953 *Cordia alliodora*.

5 ± ~~1.4~~ 1.4m;

33954 *Bignonia*

Woody vine; ev. y.

33955 *Bignonia*

Woody vine; cor. wh.

33956 *Ploradendron*

Parasitic

33957 *Polygodium* ~~*gibbatum*~~
Sh. ± 2m (956a)

33958 *Basell.*

HV

33959 *Holcus*

33960 *Lantana*

Suff. herb, ± 1m; cor. wh. to pinkish wh.

33961 *Crucif.*

Pet wh

33962 *Echeveria*

Succ. lvs.; buds yellowish

33963 *Orch.*

Ter; 3-4 sp. gr, 2+ lvs. 4-9.

33964 *Hibiscus* or *Abutil.*

H ± 2m; fl. red. (cult.)

33965 *Passiflora bogotensis*

H.V.

33966 *Monstera?* *Polygodium fimbriatum* = alt 7410

5-8.5m; cor. pinkish y.

33967 *Pilea lindleyi*

H. up to 80cm.

33968 *Hieracium*

H. fls. or-y

33969 *Alchem. orbic.*

Roots subrep.

V = to S. Int.

El Hatico

open grassland

3/5-

woods

And.: Bogotacito, ± 2200m ~~Shaded bank~~

3/8

Salto de Segundama; partially shaded
creek
alt. ± 2500m.

- 33970 *Passive (not celosia)*
H, subscandent; info. greenish wh.
- 33971 *Comp.*
S 2-2.5 m; info. grayish wh.
- 33972 *Salvia*
H; cor. deep blue
- 33973 *Cephaelis* "Asclepias"
H. elong. branches up to 1 m long; pet y
- 33974 *#Cuphea zanzibarica*
Subrep., suff. herb; pet. rich purple
- 33975 *Kyllburgia*
Moist soil
- 33976 *Begonia*
Herb. br. herb up to 1 m high; fr.
- 33977 *Saurauja*
T \pm 5 m; pet wh.
- 33978 *Comp.*
S \pm 1.5-2 m; rays wh.; florets greenish
- 33979 *Pilea gonolobium*
Suc. herb up to 1 m
- 33980 *Passiflora erythrophylla*
H. v.
- 33981 *Valeriana*
H. v.; fls. greenish wh.; fruit with papery bract not obtainable
- 33982 *Comp.*
Bracts greenish wh. S \pm 3 m.
- 33983 *Oenothera*
Pet y
- 33984 *Piper*
S \pm 2.5 m
- 33985 *Comp.*
Herb. S \pm 1 m; fl. wh
- 33986 ~~*Mitrasacme*~~ *Oenistia*
Scleroph. br; cor. wh.
S 2-2.5 m; cor. greenish y

Salto de Tequendama; partially
shaded hillside

3/8

woods

shaded hillside

33987 *Euph.*S \pm 2.5 m; sticky33988 *urtica*

Slender herb; rays wh.

33989 *Stevia*

Fls. wh.; sup. herb 35-50 cm.

33990 *Aypha defetala*

Sh, long slender br. up to 1.5 m. long; pet. deep purplish-blue

33991 *Heimia*

HV

33992 *Thit. cordata*

Much br. sh, branches erect; cor. tube deep pi, green apex

33993 *Bouteloua*33994 *Psychotria*S ~~1.5-2 m~~ 1.5-2 m; up. branches pi.33995 *Epidendrum*

Ter. per. seg. all light green, fleshy

33996 *Isoloma*Er. sh \pm simple stem, \pm 1-1.5 m high33997 *Castilleja*Suffr. ~~herb~~ Shrubby; br. r., \pm 1 m33998 *Malast*Suff. herb \pm 50 cm; pet. deep pi, anthers y.33999 *Euphorbia*34000 *Bouana racemosa*
~~herb~~ creeping;High-climbing vine, upper part of stem
Self notes34001 *Morima*S \pm 50 cm; pet. deep blue34002 *Apium*

Un

34003 *Geranium*

St. suberect; pet. pi.

Salto de Tequendama

shaded hillside

3/8

open woods

#

open hillside

open woods

open hillside

Thickets

open hillside

34004 Grass

34005 Myrica pub.

T 3-4 m.

34006 Trif. filiforme

Ref. H. 1 fl.

34007 Eleocharis

pitch

34008 Cuphea

H; slender, sparsely br; pet. blue

34009 Cuphea

H. pet. deep pi.

34010 Phytolacca

2.0-1.5 m.

H ~~4-5 m~~; fls. o fr. rich pi

34011 Carex

34012 Miconia thaezans

~~Small~~ to 2.5-3 m; pet. wh

34013 Casearia

± 2.5 m;

S elong fr.

34014 Grass

34015 "

34016 "

34017 "

34018 Paspalum

34019 Cordia

S 2.5-3 m, stem ± 10 cm diam; cr. light gr, erect (w lobes/denticulate)

34020 Rynchospora

u

Salto de Tegundama; open hillside

3/8

woods

open hillside

open hillside

~~4~~

- 34021 ~~Stachys~~ *Sphoropogon*
Stem tr.; cor. wh.
- 34022 *Minthostachys*
with long. branches;
St. cor. wh.
- 34023 *Weinmannia*
Sm t; sterile
- 34024 Grass
Elong stem
- 34025 *Klappothia*
H subsc.; pet. wh.
- 34026 *Bomarea*
See notes on 34000
- 34027 *Alternanthera*
Subsc. herb; heads greenish wh.
- 34028 *Scroph.*
H.; cor. light y
- 34029 *Passifl.*
H.V. climbing over shrubs.
- 34030 *Rynchospora*
- 34031 *Plantago*
- 34032 *Boehmeria rugosa*
S 50-100 cm.
- 34033 *Tropaeolum*
H.V.; calyx r, lobes gr; pet. ~~sub~~ purple black
- 34034 *Begonia tropaeolifolia*
Suc. vine, dependent on bank
- 34035 Grass
- 34036 *Calceolaria*
Cor. y
- 34037 *Myrt.*
T ± 4m pr.

Salto de Tequendama; open hillside
≡

3/8

shaded hillside

open woods

~~open~~ hillside

Thickets

~~at actual spot shaded~~

open bank

Thickets

open hillside

wet bank

edge of woods

34038 *Aissampela tropaeolifolia*
H

34039 Polart.

34040 Moss

34041 Orch.

34042 *Viburnum*

S ± 3 m; fr. black; fls. wh

34043 *Spilacete*

S ± 1 m; corolla deep blue; fr. blue

34044 Leg.

Sup. H to 1.2 m; fls. y

34045 *Epandrum*

5 pet. light pi; lip w; col. y. Ter.

34046 Grass

34047 Paep.

34048 *Rubus*

Woody vine; fr. black

34049 *Panic. mista*

H S ± p. n.; corolla irregular.

34050 *Cordia*

S 2.5-4 m; cor. wh.

34051 *Hesperomela*

S ± 2 m; pet. wh

34052 *Parosia*

T; calyx & st. cream wh.

34053 *Hesperomela*

S

34054 *Rapanea*

T to 5 m

Salto de Tequendama; thickets

3/8

Brink of falls

Above Usaquén, 9200-9500 ft.; ^{bank} along road
= 2800-2900 m.

3/12

"utamo"

"Curuba"

"Martino"

Un-P

34055 *Smilax tomentosa*

WV

34056 *Espeletia*34057 *Senecio*S \pm 70cm; fls. y34058 *Oreopanax*T \pm 7m34059 *Lichen*

On twigs

34060 *Moss*

On soil

34061 *Arch-Maxillaria*Ter; 5 pet. greenish, pi-tinted; lvs pi-spotted ^{col y}34062 *Moss*

On branches

34063 *Lichen*

"

34064 *Lichen*

"

34065 *Moss*

On soil

34066 *Sphagnum*

"

34067 *Lichen*

On branches

34068 *Lichen*

"

34069 *Sphagnum*

On soil

34070 *Polytrichum*Mixed with *Sphagnum*34071 *Stelis*Ep. *lutea* pi

Above Uraquén, 9200-9500 ft.

s/r 2

Los Gages, below Par. de Guacat
 \pm 10700 ft. (3250m)
woods

- 34072 *Seneio*
Hfl. 7-9. S 2-3m.
- 34073 *Bouarea*
HV, slightly vol., climbing to 3m; sep + pet. red, yish fr.
- 34074 *Macrocarpa*
S 2-2.5m; cor. greenish y; branches ar.
- 34075 *Moss*
on soil
- 34076 *Weinmannia*
S
- 34077 *Drimys*
Su-tr. fl. cream
- 34078 *Tibouchina grossa*
T 3-4m; pet. deep red
- 34079 *Culeita*
- 34080 *Stelis*
Ep; per. sep. gr., ^{pink} slightly ~~g~~-tinged.
- 34081 *Myrmec.*
S
- 34082 *Eloph.*
Ter.
- 34083 *Aspl. zorra*
Ter.
- 34084 *Rhexia refracta*
- 34085 *Polytr.*
Rep. mt.
- 34086 *Lourea*
- 34087 *Stelis*
Ep; per. y
- 34088 *Hep.*
Roots of orch.

Ur-P

Gino Bona

Ur-P.

Los Gages, below Par. de Guasca
+ 10700 ft.

3/12

alt.
= 7492

~~alt. 7446~~

= alt. 7490

= alt. 7463

= alt. 7479

= alt. 7454

34089 *Orch.*

Ep.

34090 *Orch.*

Moist soil (Sphag.)

34091 *Rhynchospora*34092 *Hypochaeris*

5-30 cm - 60 cm fls. y.

34093 *Moss*

Hanging from branches

34094 *Hymenoph.*34095 *Jamesonia*34096 *Psilogramma*34097 *Deplatophyllum*

Compact S, up to 50 cm; rays purple

34098 *Polytrichum*

Hanging on trees

34099 *Espeletia grandifl.*

Ph-82

34100 *Polygodon*

Ep.

34101 *Psilogramma*

Vin

34102 *Ayuzma*

Cen-P

34103 *Aster*34104 *Grass*34105 *Sisyrinchium*

Per. y

gave
0

3/12

#

Paramo de Guasca, ± 11000 ft. (3350 m)

woods

= Alston 7489

= Alston 7459

open

Los Gages

woods

Par. de Guasca $\pm 11,300$ ft. open (3450
(3475 m))

woods

open

= ~~7485~~ Alston 7485 / woodsLos Gages ± 10700 ft.

open

Par. de Guasca $\pm 11,300$ ft. (3400
(3475 m))

34106 Carex

34107 Rubus choacahuensis

Suberect S, along branches; fls. pink-red

34108 Halimolobos

Cr. & light green

34109 Warneria

Cap. lvs flat on ground; sepals yellow.

34110 Acaena

34111 Epidendrum

Efr. Per. sep. obov y-g, lip pi-spotted; cal. pi.-margin

34112 Orch.

Efr.

34113 Hep.

Roots of orch.

34114 Elaph.

Ter.

34115 Stelleria

Subsc. herb; ped. wh.

34116 Hypnum

Efr.

34117 Orch. (distinctive)

Efr. per. yish-y

34118 Lichen

On branches

34119 Chusquea weberbaueri

St. erect 1.5-2 m

34120 Paep.

young lvs very hairy

34121 Moss

on bank

34122 Galium

Cr. wh. E. H

Par. de Guasca, ± 11,300 ft open (3450 m)

3/12

woods

Los Gages, ± 10700 ft.

Par. de Guasca, ± 11,300 ft. (3450 m)

= Acaena 7488

open

woods

- 34123 moss
on trees
- 34124 *Oryopteris fruehlii*
- 34125 "
- 34126 *Polypodium*
Ep.
- 34127 *Cestrum*
S 1-2 m; cor. y.
- 34128 *Vicia*
Cr. h., ± 15 cm; fls. pinkish blue
- 34129 *Carex*
- 34130 Lichen
On rocky bank
- 34131 *Werneria*
Caespitose plant on ground; rays wh
- 34132 *Paspalum* un-1c
- 34133 *Stachys* *rimosa* 11/39
Cor. blue un-1c
- 34134 Eup.
Sh. ± 1.5 m (compact) (old)
- 34135 *Vaccinium*
S ± 2 m; cor. wh
- 34136 Grass un-1c
- 34137 *Eupetia*
Ray y; fl. antecurtil
- 34138 *Senecio*
Compact sh; 1.5-2 m.
- 34139 *Olcheanella orbic.*
Eub. ref.

(3450 m).
Par. de Guasca, $\pm 11,300$ ft. woods

3/12

= Alston 7453

= Alston 7486

open

 $\pm 11,500$ ft. (3500 m)

Eup. *Vacciniifolia*
is much like Eup.
from Guasca, un-1c

34134?

3475 m
 $\pm 11,400$ ft. (west side)
3450 m
 $\pm 11,300$ ft. (east side)

- 34123 moss
on trees
- 34124 *Oxypteris furchii*
- 34125 "
- 34126 *Polypodium*
Ep.
- 34127 *Cestrum*
Stem, cor. y.
- 34128 *Vicia*
St. h. ± 15 cm; fls. pinkish blue
- 34129 *Carex*
- 34130 Lichen
On rocky bank
- 34131 *Werneria*
Caespitose plant on ground; rays white
- 34132 *Paspalum*
un-1C
- 34133 *Stachys* *Werneria*
Cor. blue
- 34134 Eup.
Sh. ± 1.5 m (compact) (old)
- 34135 *Vaccinium*
S ± 2 m; cor. white
- 34136 Grass
un-1C
- 34137 *Espeletia*
Ray y; fl. sessile
- 34138 *Senecio*
Compact fl.; 1.5-2 m.
- 34139 *Alchemilla orbic.*
Subsp.

(3450 m).
Par. de Guasca, $\pm 11,300$ ft. woods

3/12

= Alston 7453

= Alston 7486

open

 $\pm 11,500$ ft. (3500 m)

PLANTS OF PERU

vitaminacea, 90 cm. high;
white.
On ridge

3425 m
 $\pm 11,400$ ft. (west side)
3450 m
 $\pm 11,300$ ft. (east side)

- 34140 ~~Erica~~ *Hebe*
Composite sh. $\pm 2.2m$.
- 34141 *Polytrichum*
On soil
- 34142 *Vaccinium*
Low S
- 34143 *Alchemilla*
spreading h. \pm woolly
- 34144 Moss
On soil.
- 34145 Grass
- 34146 *Geranium cucullatum*
Rep. herb.; het pi.
- 34147 *Alchem. aphanes*
- 34148 *Paep.*
Low. smooth. Caesp.
- 34149 *Euph.*
Comp. shrub 2-2.5m.; Rays wh.
- 34150 *Senecio forsteri*
Rays deep pink.
- 34151 *Diplostegium*
S; Rays lavender
- 34152 *Ranunc.*
Stems
- 34153 *Puya*
- 34154 *Bomarea*
Seg. red. suberect herb
- 34155 *Veronica*
Cr. bright blue
- 34156 *Euph. Thib.*
S 2.5-3m, elong. br.

U-1C

U-1C

U-1C

Ph 81

Par. de Guasca $\pm 11,300$ ft. woods (east side)

3/12

open

woods

open

 ± 10800 ft. ~~woods~~

marsh

open (3475-3566m) Ph
11400-11700 ftwoods $\pm 11,300$ ft (3450m)Los Gages, ± 10700 ft marsh in open

woods

- 34157 *Senecio*
wv
- 34158 *Oxalis* un-11
Suc. subsc. H; pet. y
- 34159 *Hydrocotyle*
HV
- 34160 *Liabum*
HV; rays bright y un-11
- 34161 *Polystichum*
- 34162 *Luzula*
- 34163 *Begonia*
Suc. H; pet. pi.
- 34164 *Scelis*
Ep.; per. y-g
- 34165 *Anthurium*
Ter.; subscand.
- 34166 *Marchantia*
- 34167 *Peperomia*
Efr
- 34168 *Bambusa*
Suberect, ~~bran~~ ± 2 m, branches slightly drooping
- 34169 *Clusia*
T 15-20m; fls. green y
- 34170 *Epipactis argentea*
Vap. y; lvs. silvery white.
- 34171 *Polygonum*
- 34172 *Gross*
- 34173 *Hypnum*
S^h 20-50cm; pet y

Los Lagues, ± 10700 ft. Woods along
stream

3/12

= alt. 7448

clearing open hillside.

Woods along stream

edge of falls

open

open bank

- 34174 *Nicotiana*
Compact S, ± 2 m; pet. wh
- 34175 *Melast.*
S; pet. rich pi.
- 34176 *Senecio*
Compact S ± 1 m; inf. y
- 34177 *Melast.*
S 50-100 cm; pet. purpl., anth. y
- 34178 *Hypericum*
S 20-50 cm; pet. y
- 34179 *Thunb.*
S 2-3 m, long. br.; cor. fr; whitish at apex
- 34180 *Bidens*
WV; rays y
- 34181 *Castilleja*
Br. bright red; 8 \pm 40-70 cm
- 34182 *Liatris*
WV; rays y
- 34183 *Hypericum*
S 1-1.5 m; pet y
- 34184 *Acaena*
S, spreading on ground
- 34185 *Hypericum*
Erect S, 30-50 cm; stems & br. erect; pet y
- 34186 *Euph.*
Slender S, $\pm 1-1.2$ m; fls. whitish? (old)
- 34187 *Elaph.*
on shaded bank
- 34188 *Gaultheria*
S ± 80 cm, elong. subprostr. fr.; fls. black
- 34189 *Lobelia*
Slender h, up to 1 m high; cor. blue
- 34190 *Senecio verticillata*
Er. S 35-50 cm.; florets yellowish green

Los Lagos, ± 10700 ft. open

3/12

Boqueron de Chipaque, ± 10700 ft. (unshaded)
thickets (3250 m)

3/16

open bank

thickets

Edge of woods

- 34191 *Eleph*
- 34192 *Lycop. jussiae*
subscandent
- 34193 *Diplostegium*
S 1-1.5 m; florets greenish wh, rays wh
- 34194 *Herposiphonia*
S or sm. t 2.5-~~3~~ 3.5 m; pet. wh.
- 34195 *Werneriina Tomelissa*
T 3-4 m
- 34196 *Eup. crassifol.*
S 1.7-2.5 m; florets & styles wh.
- 34197 *Mouningia*
Er. S 1.1-1.2 m; pet. deep blue
- 34198 *Vicia*
Pet. blue; subperist. limb.
- 34199 *Ancytophyllum*
Er. S, 80-120 cm; cor. wh.
- 34200 *Befaria* "Anguicho"
S 30-70 cm; cor. bright r, paler at apex
- 34201 *Boneria*
Pl. sup.; elong br.; cor. wh.
- 34202 *Carex*
- 34203 *Stachys*
subscandent
H. fr. br.; cor. blue
- 34204 *Melast*
S \pm 50 cm; pet. deep pi.
- 34205 *Eup.*
S \pm 1 m; inf. wh.
- 34206 *Cestrum bupif.*
S 30-60 cm; fls. cor. greenish wh, pale limb streaked
- 34207 *Grass*

(150 m)
Boqueron de Chipaque, \pm 10300 ft.
open scrub

3/16

open

thickets

open

thickets

~~th~~

open

thickets

open hillside

thickets

open

34208 *Luzula*34209 *Baccharis*34210 *Espeletia*

Trunk up to 20 cm; rays y

34211 *Senecio*Compact S ± 1.5 m; infl. greenish34212 *Baccharis*

S

34213 *Ranunculus*

Pet. y

34214 *Alchemilla aphanoclas*34215 *Sisyrinchium*

Per. y

34216 *Puya*Lvs ± 30 cm; culms ± 60 cm.34217 *Cestrum*

Sagmt. 2.5-3 m; cor. blackish

34218 *Marchantia*34219 *Scleria*34220 *Grass*34221 *Pappia*H ± 50 cm.34222 *Opuntia*

In; seg. pinkish wh; col. pi.

34223 *Mimosa*

S 40-60 cm; pet. dull blue

34224 *Grass* ± 1.5 m; infl. pinkish red(3150 m).
Boqueron de Clifague, ± 10300 ft.
open bank

716

In open

marsh

open

thickets

~~Caulis~~ on: *Chetani* (1530 m)
~~WETA~~

Roadside ditch

open bank

34225 *Corchorus*H \pm 40 cm; per. wh.34226 *Thick.*

S 1-1.5 m; cor. r, lobes pink

34227 *Salvinia filicoides*34228 *Dryopteris opposita* (Vahl) Kunt.34229 *Jussiaea*34230 *Siphocampylus*

H 25-40 cm; cor. r.

34231 *Grass*

(common here)

34232 *Licania*

cor. blm

34233 *Eup.*S \pm 30 cm; flowers pink34234 *Acalypha*

Sun T.

34235 *Uncaria*

T 3-4 m; pet. wh.

34236 *Peperomia*

On bank

34237 *Peperomia*

Do. shade

34238 *Peperomia*

On branches

34239 *Coccoloba trichomanes*

On wet bank

34240 *Henriettella*

Tree 3-4 m; pet. wh.

34241 *Scleria*

Cund. Huasteca

open

3/16

ditch

partially shaded bank

(Cund. Huasteca)

open

Pigonal 1000m forested valley

Meta: 20 km So. of Villavieja \pm 500m.
dense palm jungle

3/17

34242 *Tococa*S on mt, with long. branches; ant. infloresc.; pet. wh, pale fr. ^{anther wh} m; dense palm jungle34243 *Polypod.*

on tt

34244 *Rhus*

T 3-4 m; buds greenish

34245 *Cordia* ~~*indica*~~ *Visamia*T ⁴⁻⁵ m, stem ^{stip = brown} erect, ~~trifoliate~~ (sterile)34246 *Piper*

S usually 30-60 cm, rarely to 2 m; br. spreading

34247 *Herrenia*Sun t, 3 m high; lvs. at summit, fls. ^{on lower part of} ~~subt. stem~~ which is ^{+ 2 cm diam.}; pet. red34248 *Piper*T 4-6 m, com. but only 1 sp. seen; ^{longest leaf = 13 in long midrib} on long stem34249 *Ecchatoxanthum*

on tt

34250 *Picramnia*T 3-4 m; st. simple 2-3 cm diam; ^{ant. infloresc.} lvs. divar.; ^{infl. stem} br. orange34251 *Casuarina*

S 2.5-3 m, long br.; pet. wh

34252 *Virola*

Large tree (fallen), infl. reddish

34253 *Peperomia*

Dependent from branches

34254 *Peperomia*

Large tree (fallen); buds greenish-wh.

34255 *Uncaria*

on H.; pet. pi.

34256 *Gram*Stems erect \pm 1 m34257 *Cyper*34258 *Sparganium*Ter. spike light green, white an; seed greenish
Common along this stream

3/17

Meta: 20 km se of Villavieja

edge of jungle

dense palm jungle

marshy stream bed

- 34259 *Eucalypt*
In water &
- 34260 *Ericaceae*
do
- 34261 *Acanth.*
In water
- 34262 *Cladonia*
on log
- 34263 *Moss*
do
- 34264 *Moss*
do
- 34265 *Pithecel.*
T \pm 10 m; ~~calyx~~ cor & stamens pi.
- 34266 *Philodendron palmatum*
Climbing on trees; fruit wine-col.
- 34267 *Palm*
Trunk straight, ²⁰⁻²⁵ 20m, 15-20 cm diam.
- 34268 *Pandanus*
WV; fr. deep r.
- 34269 *Meli.?*
T 10-12 m, fr. only
- 34270 *Palm*
See Separate Fruit Collection Fruit Sep.
Acaulescent; inf. at base; lvs 4m long, pet. 1.5 mm
- 34271 *Dussia*
S \pm 2.3 m; with slender trunk & dis. br.
- 34272 *Rub.*
S or SW T
- 34273 *Cyrtocarpus*
S \pm 1-1.5 m; br. r, fls. 7; fr. bright blue
- 34274 *Chamaedorea*
T slender, \pm 1.5 m; fr. purple
- 34275 *Palm*
See Separate Fruit Collection
T straight \pm 6 m high

Notes: 20 Km SE Villavieja to town.
Along shallow stream bed

8/17

stream bank in jungle
palm jungle

34276 Cyper.

34277 Ischnop

H, st. \pm 1 m; per. wh.

34278 Uclast.

S, along br.; pet. wh., fr. purp

34279 Tringus

On log; pinkish red.

34280 Pittoscel. cuneif.

Vine? fr. on stem

34281 Benthia Benthia

Stem t; fr. black; buds cream

34282 Moss

on wet log

34283 Polyp.

on t

34284 Olyra

1-1.2 m

34285 Phil.

Ep.; spathe red lower $\frac{1}{2}$, pinkish white up.

34286 Selagin. hookii (! det)

Ter. (very rare) Very cool. at Faguna?

34287 Polypod.

on t.

un-1C

34288 Xanthos. dilacerata

Ep

34289 Pipt.

S 1-1.5 m.

34290 Renealmia

Acaul.; infl. at base, fr. r., per y; ^{lvs distinct} stem \pm 1.5 m.

34291 Uclast

H; pet pi

34292 Misc. Scorpioides

T 7-9 m;

Note: \pm 20 km 20 Villavieja
palm jungle

3/17

Edge of jungle.

34293 *Muc. albicans*

T

34294 *Aporosa*

WV; fr. only

34295 *Nimrod colombiana*

WV

34296 *Siparuna*34297 *Eriozima singla.*

Br. subsp.; fls. y

34298 *Hirtella*

T

34299 *Myrt.*T \pm 9m34300 *Sapst*

T 6-8m

34301 *Euphorbia*

T 5-8m

34302 *Rupia*

T fr. w/ fr. pump

34303 *Dialium*

WV

34304 *Clitoria*

T 8-10m

34305 *Bursera*

T

34306 *Pinelobis*

muddy shore of pool

34307 *Utricularia*34308 *Galactia*

St pump, heel pinkish

34309 *Hyptis*

Ct pinkish white

20 Km SE of Villavieja, ^{edge of} ~~forest~~ jungle

3/17

Grise Blue

edge of jungle

Grise Blue

llano

edge of woods

Llanos

34310 *Panicum*34311 *Andropogon*34312 *Comm.*
*grass*34313 *Xyris*34314 *Sub. Swamp*Succ., thick rootstock; ~~sp. red~~ fr. wh. *Althya*34315 *Chenopod*

St 50 cm.; fls. y

34316 *Gnaphalium*

Suff. spreading br.; fls. y (viscous)

34317 *Leg.*

Suff.; fls. y

34318 *Hyptis*

St 30-50 cm.; cor. wh

34319 *Grass*

34320 "

34321 "

34322 *Trachypogon?*34323 *Grass*34324 *Polygala*34325 *Eriosema*

cor. y

34326 *Eup.*

Suff. pi.

20 Km. S.E. of Villavieja, *Plano*

3/17

*Bur**Bur*

- 34327 Phas.
St. rep.; pedicels erect; fls. purple & green
- 34328 Ananthe
Infl. wh.
- 34329 Scleria
- 34330 Ruellia
Cr. pink blm
- 34331 Dichromum
Br. wh. at base
- 34332 Zornia
Pet 4
- 34333 Jacaranda
T; fls. blm (on ground)
- 34334 Orch.
Ep.
- 34335 Grass
- 34336 Arac.
Ep. (more slender?)
- 34337 Clusia
T 4-5m; fr. light gr.; seeds red
- 34338 ~~Pachystachya~~ ~~sub.~~
Sor ant; fl. purple-black
- 34339 Saccoloma
- 34340 Vismia
T 4-5m
- 34341 Chanisosa
Inf 1; infl. greenish
- 34342 Cecoloma
T 3-4m; pet. bright
- 34343 Chamuf.
St 1.5m; pet. light y; apex deep purple.

+ 20 Km S2 Villavieja Flamingo

3/17

palm jungle

Ben

Villavieja: roadside thickets, 5-10 km S2 city
Edge of jungle

3/18

Villavieja: roadside thickets

5/18

34344 *Bidens*

H V; rays bright y

34345 *Trichanthes gigantea*T 6-8 m; cor. ~~green~~ yellow, pist. tinged34346 *Stigmaph*

W V; pet. y

34347 *Cestrum*

Shrub t. 3-4 m; cor. greenish

34348 *Passiflora*

Sup. V; cor. w

34349 *Cordia*

Corolla j.

34350 *Vernonia*

Suber. herb; fls. w

34351 *Brownea*T \pm 4 m; pet. bright r34352 *Wassia*

T; Bracts r

34353 *Heliconia*Stem \pm 2.5 m; br. r, fr. y34354 *Acauth.*

Sup. h. 1.2-1.8 m; cor. wh, purple in

34355 *Judicia*

H 40-50 cm; cor. wh

34356 *Casaria*

Shrub t. elong br; pet w

34357 *Piper*

much-br. sh 2-2.2 m

34358 *Mischina*

H V; cor. w, green at base

34359 *Heliconia*H \pm 3 m; br. r, fr. gr., wh apy34360 *Rhaz.*

H V; pet. y. g

Villavicencio: ^{wadside} thicket, 5-10 km ^{ss.} _{8 city}

3/18

~~roadside~~ tree

thicket

Ph 83

field

thicket

Bee

34361 *Aphelandra*
H 4.80-1 m; cor. bright r

34362 *Pomoea*
H V; cor. pi.

34363 ~~Cassia~~ *Chamaefestula*
Subscand., suff. herb, \pm 3 m; sepals green; pet. y

34364 *Jaquimonia*?
H V. Cor. wh

34365 *Amor.*

34366 *Psych.*
H V; suff. greenish

34367 *Scroph.*
S 2.5-3 m; branch upl. o cor. r; calyx bright y

34368 d "

Ran.

34369 "

"

34370 "

"

34371 *Gum.*

"

34372 *Samarangia*

34373 *Aeschyl.*
Suff H; pet y

34374 ~~Cassia~~ *Panicum*

34375 *Erdia*

Sh. St erect, \pm 2 m; trunk greenish

34376 *Passiflora*
W V; fr. red

34377 *Mendocinia*
W V; cor. r.

Vellaviscus; roadside thicket, 5-6 km
S. E. of city

3/18

Along Rio Ocoa

Sandy ~~stream~~ ^{edges of river}

rocky river bed

wooded edge of river

34378 *Delonix*34379 *Cestrum*

S or sm t, 2.5-3m; fr. black, lustrous

34380 *Cordia nodosa*

S, elongate; fr. wh

34381 *Vismia*

sm t; pet yg out. wh in

34382 *Tupa*

T 4-5m; st. w

34383 *Mimosa*

Suf. vine; sterile

34384 *Erechtites*

H

34385 *Hibiscus*

S, ± 1m; pet. deep pi.

34386 *Paullinia*

WV, sterile

34387 *Sipanea*

S 3-4m, elongate

34388 *Psych. bracteata*

S or sm t 3-4m; fr. light blue

34389 *Smilax*

WV

34390 *Alchornea*

T 6-7m.

34391 *Tetrapteris*

WV; pet. y

34392 *Sol? Styrax?*

?

34393 *Cyrtus peruv*34394 " *Chloranthus*

= Alst. Río Ocoa wooded edge of river

2/18

= alt. 7673

rocky stream bottom

wooded edge of river

woods

↑
wooded edge of river

rocky stream bed

34395 *Oryzopsis*34396 *Paspalum*

34397 Grass

34398 *Heteranthera renifolia*
In stream

34399 Euph.

H

34400 *Calopogon monanthus*
HV; fls. blue34401 *Mollugo vert.*34402 *Ancilema*

Per. wh.

34403 *Jussiaea*

Sup. h. 1-1.2 m; fls. y.

34404 *Jussiaea*

Sup. h., up to 1 m; fls. y.

34405 *Elodea*

Per. w.

34406 *Elodea*34407 *Penealonia*

Infl. at base; leafy stem 2.2 m; fls. r.

34408 Euph.

Sup. h. 40-50 m; florets wh.

34409 *Piptadenia*

T 6-7 m; cor. gr., stam. red

34410 Grass

34411 Apoc.

HV, Cor. wh.

Río Oca, near Villavieja; rocky stream bed

3/98

thickets

rocky stream bed

Villavicencio; 5-10 km. e. of city
marshy ground

floating in pool

muddy edge of pool.

Río Guateguia: ~~stream~~ ^{river} bed

edge of river

- 34412 *Cyperus*
Heads deep brown
- 34413 ~~*Hyptis*~~ *Cyperus*
H \pm 1 m; cor. deep pi.
- 34414 Malv.
2-2.2 m.
Coarse herb; lvs at top; infl. on main stem; pet. r.
- 34415 *Peirainisia*
S 2-2.2 m; pet. y
- 34416 *Plum*
HV; pet. yish-pi
- 34417 *Acalypha cordata*
T 8-9 m; infl. green
- 34418 *Passifl. acutellii*
HV
- 34419 *Piper flavescens*
S \pm 1.8 m.
- 34420 *Euph. alternatum*
S \pm 1 m.
- 34421 *Epidendrum*
Ter; hr. pi.
- 34422 Moss
On wet bank
- 34423 *Kyllinga*
- 34424 *Centropogon*
H \pm 60 cm; cor. pi
- 34425 Sol.
S \pm 30 cm.
- 34426 *Nikania*
WV
- 34427 *Cissus*
HV; infl. red
- 34428 *Vernonia*
WV

Rio Guatiquia: stream bed

3/18

edge of river

woods along river

near edge of river bed

woods along river

un

Bm

- 34429 *Comp.*
Coarse h; ~~± 2.5 m~~ ± 2.2 m; rays dup. pi.
- 34430 *Gurania*
H V; fr. long-dependent
- 34431 *Dryopteris opposita*
- 34432 *Coffea*
- 34433 *Arac.*
Ter.; spathe green; spadix pi
- 34434 *Penstemon*
Acaulescent; fr. 2-3 m with ~~fr~~ siliques
- 34435 *Islandia*
Ep. h.
- 34436 *Begonia*
up to 50 cm
Suc. th; pet. wh
- 34437 *Grass*
Up to 2 m high
- 34438 *Xylophora*
Per. W
- 34439 *Psidium*
3-9 m; cor. pure wh
- 34440 *Melast. (Chloranthus)*
S ± 2 m; pet. wh
- 34441 *Salacia*
Tree; infl. grayish w
- 34442 *Vernonia*
Suf. herb. ~~± 2 m~~ 1.5-2.5 m; florets pi
- 34443 *Crotalaria*
Suf. herb.; ± 50 cm; pet. light y, streaked with red
- 34444 *Cassia*
Suf. herb. ± 60 cm; pet. bright y
- 34445 *Pissip. maliformis*
H V; exocarp of fr. hard

Rio Guatoguina; woods along river

3/18

Muddy bed of river

Woods along river

Ren

Ben

rocky stream bed

Vulcanic area; the field

3/19

thickets

- 34446 *Urvillea*
HV; fls. wh, fr. greenish
- 34447 *Dialium*
HV; buds pinkish blue
- 34448 *Eup.*
style pi.
- 34449 *Carica*
Pl. ± 1.5 m; fls. greenish y
- 34450 *Eup.*
blooms & styles light pi.
- 34451 *Machaonia*
Shr t, 2.5-3 m, subsc., finely br.
- 34452 *Croton*
H; fls. wh
- 34453 *Xanthosoma*
Ep
- 34454 *Dioscorea*
HV (sterile)
- 34455 *Cuphea*
H; pet. pale pi.
- 34456 *Acalypha*
T 6-8 m
- 34457 *Sesuvium*
WV
- 34458 *Pisonia daniellii*?
HV
- 34459 *Inga guatemalensis*
T 10-12 m; ~~sh. wh~~ cr. st. wh
- 34460 *Phyllanthus*
H; cr. greenish y
- 34461 *Helicteres*
S; fls. red
- 34462 *Clidanthus*
S, 2.5-3 m; inf. wh

Villavieja: thicket

3/19

woods along
El Estero Cañabava;

1

field

woods along th. Can.

Bu

34463 Piper

S 2.5-3m.

34464 Ouratea

T 7-8m; pet. y

34465 Epid.

Ep.

34466 Seijania

Sup. vine; pet. wh.

34467 Coccoloba

S n sm t.

34468 Ques.

H V; an. y

34469 Cucurbit.

H V, Fr. sep.

34470 Clammyf.

T \pm 3m; pet. y

34471 Paullinia

sup. v

34472 Piper

S n sm t, \pm 3m.

34473 Comp.

S 2-2.5m; rays y

34474 Paullinia

W V; fls. wh.

34475 Mim.?

Tree 6-8m; sterile

34476 Croton

S 2-2.2m; pet wh

34477 Strobil. cernua

H 1.5-2m; br. gr. prop, yish dist

34478 Phytolacca

H 1-1.3m; fls. wh.; br. inf. pi

34479 Wissadula

Sup h \pm 1m; pet. light y

See Separate Fruit Collection)

Ren

un

Villas.: woods along R. Canabana

3/19

Rio Guatiquia; wooded edge of rain

34480 *Corypoma*
H V cor. gr.

34481 *Grass*

34482 *Leianthus*

H 80-100 cm; cor. yellow

34483 *Adenaria floribunda*
Sm 2-3 m

34484 *Paulinia hispida*
Inf. V; pet. wh.

34485 *Heliconia* br. y, pink at base; fruit blue
H; peduncles at base (ground), bearing 1 leaf; main lvs with pet. ± 1.8 m.

34486 *Apro*
H V; cor. wh

34487 *Serpentaria*
W V; pet. wh

34488 *Separuna*
S along br.

34489 *Aphelandra tetrag.*
H ± 60 cm; cor. r.

34490 *Phyllanthus*

34491 *Passifl. auriculata*
H V; ref 99 pet w

34492 ~~*Couroupou*~~ *Platanus*

34493 *Pityrogramma calandula*
T 8-10 m; pet. y

34494 *Miconia*

Sm t, 3-4 m; pet w

34495 *Pol.*

34496 *Heliconia*
T p. black

Pl. ± 2.1 m; bracts deep red; lvs poor

Rio Gualeguia: wooded banks of river

open bank

wooded bank

3/19

- 34497 *Costus*
Pl. ± 3 m.; br. & per. r.
- 34498 *Dimerocostus*
Pl. 2.5-3 m.; per. wh.
- 34499 *Nyctia*
Cr. wh.; suberect h.
- 34500 *Eleocharis*
- 34501 *Aeschynomene*
Sup h., ± 1 m.; pet y
- 34502 *Nyctia*
H. on wh.
- 34503 ~~*Eupatorium*~~ *Polygonum*
~~infl. greenish wh.~~ H.; fls. greenish wh.
- 34504 Sol.
Shrub ± 60 cm; lvs. dimorphic; cr. blue; umbels y
- 34505 *Panicum*
- 34506 *Isoloma*
H.; cr. bright r
- 34507 *Lam.*
In fruit. Give oil
- 34508 *Ipomoea*
HV; cor. wh.
- 34509 *Stylosanthes*
H up to 1 m.; pet y
- 34510 *Desmodium*
H ± 60 cm;
- 34511 ?
High-climbing WV; lvs not seen; cor pinkish white
- 34512 *Euphorbia*
H ± 60 cm, branched from base; st. purple; leaf whitish
- 34513 *Cordia*
S or sub-t. trunk ± 1 m high, 10 cm. diam; crown rounded cor. white

Rio Guatiquia, wooded banks

3/19

in mud, river bed

rocky stream bed

in mud, river bed

wooded river banks

Buenavista: open bank

Villavieja

Buenavista: thicket

open bank

woods

East from Boqueron de Chipaque; open ²⁹⁰⁰ ~~9600~~ 10,300 ft.

3/20

- 34514 *Passiflora*
S 40-50 cm; fls. deep blue
- 34515 *Lupinus*
Suff. herb, suberect br.; fls. ~~deep purp.~~ - bell bluish
- 34516 *Valeriana*
H; flowering stem \pm 80 cm high; cor. wh
- 34517 *Paspalum*
- 34518 *Peperomia* ~~marginata~~
under name!
Col. RA.
- 34519 *Solanum*
Repet. h; cor. wh, anthers y
- 34520 *Alternanthera*
Spreading h, br. up to 1 m long; infls. greenish wh
- 34521 *Croton Verbesina*
~~wh~~, Suff V; rays bright y
- 34522 *Muhlenbergia*
WV; florets whitish; styles pi.
- 34523 Umbel.
H 1-1.5 m; fls. green
- 34524 *Rubus*
WV; pet. wh.
- 34525 *Tournefortia scabra scabula*
2.5-3 m, clasp tr.
S ~~2-3~~ 5 m; cor. quite wh; fr. pure white
- 34526 *Cordia*
S 2-2.5 m; cor. greenish
- 34527 *Loasa* H 40-50 cm; pet. wh; seeds y, 2. lined
abundant w
- 34528 *Scaph. Lab.* ~~Lab.~~
Cor. pi, lobes purple at base in
- 34529 Cucurb.
H & sterile
- 34530 *Piper*
S \pm 2.5 m

Ent from Boqueron de Chiquique, 10,200 ft.

trials

open

Boqueron de Chiquique, 10,200 ft. open bank

Enten Cor. brought to patio of Inst. Bot.

Toluca:
Guindis Trail, ^{km 45} \pm 7800 ft; wooded valley
2371 m.

3/24

3/27

open

wooded valley

- 34531 *Salvia*
Slender sh along br; cor. red.
- 34532 *Valeriana*
H V; cor. wh
- 34533 *Comb.*
H V; rays bright y
- 34534 *Relbunium*
H V; fr. red
- 34535 *Delag. Lindigii* M. ! acaem.

- 34536 *Begonia*
H up to 70 cm; buds pi.; pet. & wh.
- 34537 ~~*Trichopetalum*~~ *granulifolia* C. B. Smith
H V; young infl. granitic

- 34538 *Juncea*

- 34539 *Grass*

- 34540 *Palme* Palme Fruit Collection Ph 96-98 # 2 Secreto
in MB form

- 34541 *Helic*
Ter; seg. all light pink wh

- 34542 *Maxiclarin*
Ter; per. granitic orange, stem striated with red. brown

- 34543 *Polytrichum*

- 34544 *Lichen*

- 34545 *Grass*

- 34546 *Opalis*
H Prost. branches; pet y.

- 34547 *Saurauja*
T 4-5 m. trunk to 30-40 cm diam

Tolina: Huindis Highway; wooded valley

3/27

= acaem 7751

44-43 8950 ft. 7900 ft.
Km 38, mostly sand.

Open bank

Km 38 8950 ft. 2700 m
9000 ft.

2750 m
9000 ft open bank

- 34548 *Rhus*?
T 4-6 m; calyx green gr.
- 34549 *Grass*
- 34550 *Eup. paniculata*
Suff. H up to 20 cm; inf. wh.
- 34551 *Olea*.
Ter; fr. or.
- 34552 *Vacc.*
Shrubby, suff. br.; cor. wh.; inf. fr. umbels
- 34553 *Polytrichum*
- 34554 *Epilobium*
Suff. herb; pet. pink
- 34555 *Rosa*
on bank
- 34556 *Lichen*
- 34557 *Grass*
- 34558 *Phytol.*
H up to 40 cm; inf. rich pi.
- 34559 *Vac.*
Low spreading shr; cor. wh.
- 34560 *Eup.*
S ± 80 cm; inf. greenish wh.
- 34561 *Salvia*
Cor. deep. red?
- 34562 *Kleptochia*
Suff. H up to 1 m; pet wh.
- 34563 *Ribes*
S ± 1 m
- 34564 *Gnaph.*
Scand. hr.

Toluca : ^{open bank} *Amador's Highway*, ± 9000 ft.

3/27

10200 ft.
3.55 m

Bm

- 34565 Begonia
Succ. h., pet. bright r
- 34566 Moss
On soil
- 34567 Cucurbit
HV
- 34568 Gaueh.
Suff
- 34569 Hydrocotyle
HV
- 34570 Lomaria
#
- 34571 Pilea
Succ. h., woody at base ^{to 1.5 m}
- 34572 Arch.
Ter. seg. pinkish red; col. green at apex
- 34573 Opalis emag.
Succ. Herb, along br; pet. ~~yellow~~
- 34574 Sphagnum
Wet bank
- 34575 Moss
" "
- 34576 Polypodium nitens?
On tr.
- 34577 Siegesbeckia
H \pm 40m; florets y
- 34578 Coccoloba
WV bud greenish y; fol. o sty light pi
- 34579 Hib.
S, along branch; br. ^{deep} pink; cor ~~red~~ (?)
- 34580 Miconia
WV
- 34581 Miconia
For compact tr \pm 2m; pet. white, deep y. net

Tollina: Guandío Highway, ^{11000 ft.} 10200 ft.
open

3427

thickets

open bank

Boqueron del Chinito ¹⁰⁸⁰⁰ 10500-11000 ft.
(8500 - 8250 m.)

34582 Carex

34583 Hesperomeliss

Compact S. 1.5-2 m

34584 Ribes

wv; pet w

34585 Bonan

H. ^{sub} pet. rich red out, pale in; pet light red ^{green-tinted dist.} ^{with a few fruit to show.} ^{anther. cinn. cov.} yellow

34586 Och.

Efr. per. greenish pi

34587 Och. Stelis

Efr. per. greenish y; in very dense clump

34588 Stelis

Efr; per. greenish y

34589 Vae.

S up to 2.5 m; much-branched branch

34590 Conch. Crebis

Low H; rays y

34591 Hydno. grossul.

H V

34592 Scroph.

Cor. bl

34593 Och.

Efr.; fresh red, ~~reddish~~ spotted deeper red out

34594 Sol.

Bow sh, suffr br; cor. w, anther y

34595 Begonia

Surf. herb, branches succ., fls. wh

34596 Steclaria

H V pet wh

34597 Ranunc.

Refined h; fls y

34598 Och.

Efr; per. deep red

Bog. del Quindio 10800-11000 ft.

6/27

34599 Moss

Roots on 34598

34600 Puccinia

S \pm 50 cm on dec. log; ~~fr~~ fls r.

34601 Carex pilch.

34602 Luss

34603 Acl.

Ep. fr. ~~g~~ y-g

34604 Bonanea

H V sep or r.; pet y, orange only, outside tan. apex, unspike

34605 Jugula

34606 Scirpus

forming a dense mat

34607 Gal

Ep. fr. perhaps = stem

34608 Anthus (hypnum)

Ep. on tt.

34609 Anthus

Ep

34610 Thib

S along br. cor. r-l

34611 ~~Cornus~~ Valeriana

WV

34612 Bonanea Gesum.

Inf l, on dec. log; fr, caly a cor r.

34613 Rubus

H WV; pet wh; fr. dark

34614 Epipendrum

Ep; sep. light y, red-tinged; cal purp, green abet

34615 Michauxia

WV fruit

Bog. del Quindío 10800-11000 ft.

3/27

34616 *Monelia*

Plating in pool

34617 *Epil. fimbriatum*

Sp. Tier; seq. light pi, simple - sparse

34618 *Centropogon*Elate with erect branches $\pm 1m$ cor. ~~gr.~~ ^{out, gr - wh in} strong petal. ^{adv}34619 *Bomarea*

V; buds red.

34620 *Dioscorea*

H V

coll. G. Valera
to 462934621 *Begonia*34622 *Uelast*

Sh. 1.5 m; pet. wh, pituized; aneth gum

34623 *Begonia*

Sup. suc h.; pet. deep pi-red

34624 *Lichen*

For on tt

34625 *Paraph.*Tub. gr., no p. pi. ~~tot~~ W V34626 *Grass*34627 ~~*Paraph.*~~ *Rubus*

W.V.

An un for the.

34628 *Rub.*

T 2-3 m; cor. wh.

34629 *Apro.*?

H V

34630 *Polyph.*

Rep. on bank over bank

34631

Polyph.
on bank34632 *Grass*

Bog. del Gumbi

10500 - 11000 ft

3/27

3250m.

just below

10700 ft. open bank

34633 *Asplenium phlegmarium* (Max.) Nutt.

34634 Vac.

34635 *Gesneria*

Cor. r; sep. up to 60 cm

34636 *Phacelia*

Seq. rich pi, col. gr, y after. Ter. $\frac{1}{4}$ in

34637 *Grass*

34638 *Lycopodium reflexum*

34639 *Centropogon*

S \pm 1.5 m; cor. r., lobes yish

34640 *Gaillardia*

Low s

34641 *Polypodium* Elaph.

34642 *Moussieria*

S 1.5-2 m; sep. deep blue

34643 *Palicourea*

S \pm 2 m; cor. rich blue

34644 *Pilea*

Inc. H.

34645 *Oreopanax*

8 m. L? young sterile plant, with cr. st. laby arising

34646 *Hydrocotyle* humb.

HV; inf. gr.

34647 *Rhynchospora*

34648 *Elaphoglossum*

Ter.

34649 *Epidendrum*

Ter.; 5 sep. light y, pinkish at base; lvs light y, with 2 red spots in; cor. pi -

Arundis Highway, just below Boguena, 10200 ft.
open bank

3/27

2450 m,
 \pm 8000 ft.
open bank

open bank \pm 9500 ft.

3/28

to

2900-3000 m.

dense for. 9500-9900

- 34650 *Begonia*
Suc h, sup. below, to 60 cm;
- 34651 *Mexanema*
T \pm 3 m; pet. rich purple; anth. y
- 34652 *Wernianema*
T; less from young, sterile plant
- 34653 *Oreopanax*
Terrestrial, bushy at summit, \pm 2.5 m.
- 34654 *Elaph.*
On trees
- 34655 *Rub. Psychotria* = one of 3/27
Compact S, \pm 50 cm; cor. wh.
- 34656 *Anthurium*
Ep.
- 34657 *Thib.*
S, elong br. cor. red prox, with dent-
- 34658 *Polypodium*
S 2-2.5 m; ray y
- 34659 *Pilea* 3V col
Suc. H. \pm 1.8 m, under branches
- 34660 *Gunnera*
- 34661 *Alchemilla orbiculata*
Coarse H, \pm sup.; infl to 40 cm long.
- 34662 " *aphanoides*
- 34663 *Pilea*
Suc (H)
- 34664 *Rhaph.*
- 34665 *Elaph.*
Ter.
- 34666 *Tropaeolum*
H V, no fl.

297-1000
Grindelia Heynaya, 9500-9900 ft.
dense for.

3/28

Anthurium coripetense N.E. V. det. T. Croat 1990

297-1000
open bank 9500 ft

3150 m.
along gulch 10300 ft.

- 34667 Moss.
 34668 Alga
 34669 Cucurb.
 Sterile HV
 34670 Moss
 on bank
 34671 Fern *Ctenitis biserialis* (Baker) Collinger det. A.R. Smith 1978
 34672 *Alsophila*
 Caules short; fr. ± 2.2 m.
 34673 *Rubus*
 Suf., prod. branch
 34674 *Cardamine*
 H; pet. wh
 34675 *Alternanthera*
 H, ± 1 m; infl. wh
 34676 Lichen
 on bank
 34677 *Cladonia*
 "
 34678 Lichen
 34679 Sol.
 S ± 2.5 m; pet. wh
 34680 Lichen
 on bank
 34681 Lich
 " "
 34682 Polyp.
 " "
 34683 *Cyathea*
 Caules ± 30 cm

3157m
 Huindio Highway, ± 10300 ft.
 wet rocks near falls

3/28

open
 wet gully ± 10000 ft.

2400-3000 m
 dense for. 9500-9900 ft.

2925 m
 open bank ± 9600 ft.

2925 m.
 thickets 9600 ft.

gully

- 34684 *Ulex*
T; sterile
- 34685 *Aphelandra*
Stripping to ± 1.2 m; no fls.
- 34686 *Olea*
Ter. fr. only
- 34687 *Galiochloa gossypii*
Sh. ± 2 m.
- 34688 *Spatholobus campanulata*
Small tree, common on sts. of Cali
- 34689 *Eupatorium*
Suf. herb.
- 34690 *Trifolium*
Fls. y
- 34691 *Croton* Ph-
a few fr. collected; no herb. spec.
- 34692 *Croton*
Many fruits collected; no herb. spec.
- 34693 *Struthanthus*
Par. sh.
- 34694 *Oreocaulis*
Par. S
- 34695 ? *Ros*
T $\frac{5-8}{2}$ m; fr. y.
- 34696 *Brown*
E. W.; per. blue
- 34697 *Phacelia*
HV; fls. deep purp.
- 34698 *Polygonum acuminatum*
Cane 1 ft, elong. st. to 1.5 m. long; fls. ~~pink~~ white
- 34699 "*cuspidata*
do; fls. pinkish white
- 34700 *Cuscuta*
Living on herbs; cor. white

Quinto Highway, gully ± 9600 ft.

3/28

2900-3000 ft.
dense for 9500-9900 ft.

Dry hills near Cali

3/29

Cali (cuel.)
Quinto Highway, 10,200 ft. 3/27
↓
open bank.

3/30

3/27

" " *Cuscuta*
open bank, 9000 ft.
2900 ft.
open hillside 2970 m.
2910 m.

Near Rio Cauca, n.e. of Cali, ± 1000 m.
thickets

3/31

"Pino"

34701 Grass

34702 Malv.

Suf. ± 1 m; fls. deep r.

34703 Ynga

T ± 9 m;

34704 Ynga

T 8-9 m; stem wh.,

34705 Rub.

Erect S, 2.5 m; stem single, cauliflorous; fls. red

34706 Moss

On bank

34707 Mercurialis

T 3-4 m; pet. rich purple

34708 Sol.

20-100 cm ± 80 cm.

H. branched toward apex, branches spreading,

34709 Pilea dentata

Succ. h, st. repent at base, branches up to 60 cm high

34710 Gesner. tubulosa

H, cor. wh.

34711 Pilea pseudo-unifolia

Stem suberect ~~pro~~

34712 Conostegia

T 5-6 m; pet. wh.

34713 Diplazium

34714 Peperomia dussanii

H. repent on ground, forming dense masses in forest

34715 Moss

On lvs. of Piper

34716 Pilea pseudo-unifolia v. grandif.

Scandent on tt

34717 Peperomia ulmifolia

Ter. very succ.

CPH 117

Near Rio Cauca, N.E. of Cali, ± 1000 m

3/31

(1200 m) (1180 m)

Estación Olaya Herrera, 4800 ft. ~~3900 ft.~~

4/2

open

Guatemala, 4000 ft. (1200 m) forest

open bank

forest

N. Digna Valley

thickets

Chorrera de la Elsa, 3200 ft. (975 m)

wet rocky forest
in spray of pines

West of La Elsa; 2700 ft. (825 m) wooded gully.

- 34718 *Pepuonia cordata*
Suc. ter h.
- 34719 *Valeriana scandens*
Suc, h, - v; cor. wh.
- 34720 *Phenax hirtus*
S up. to 1.5 m, very slender, much branched stem
- 34721 *Clidemia filifera*
- 34722 *Idybaanthus?*
H V
- 34723 *Piper*
S 2-2.5 m.
- 34724 *Costus*
H St \pm 1.5 m;
- 34725 *Arac.*
Ter. Spathe green lower $\frac{1}{2}$, wh. upper $\frac{1}{2}$, ^{brown} base
- 34726 *Psychotria macrophylla*
H, stem suc., \pm 1 m; cor. wh.
- 34727 Moss
On lvs of 4726
- 34728 *Tectaria pauciflora*
Rhiz. short - rather narrow
- 34729 *Gonolobus*
~~St~~ S on st.
- 34730 *Trich. radicans*
Raph. on bark
- 34731 *Chamaedorea*
Thrush slender, \pm 3 m h, 4-5 cm. diam; inf. ^{slight below lvs.} brown
- 34732 *Piper arbamplop.*
S \pm 2 ~~or~~ 2.5 m.
- 34733 Selag. "cortariensis" ~~cf~~ *Selaginella bombycina* Spring det?
Ter.
- 34734 *Polypodium cf. calense* (n. l.)
Ep h.

R. Origua Valley, west of La Elva ⁽²⁾
densely forested gulch 2700 ft.
thickets (S. l.)

4/2

densely forested valley

- 34735 *Asplenium*
On T
- 34736 *Diplazium cf. wallisii* (Lindb.)
fr.
- 34737 *Gurania*
longly climbing
Suf. vine; cor. red.
- 34738 *Acauth.*
H; cor. white
- 34739 *Papaya* "Papayuela"; "papapula"
T, trunk ± 1.7 m; fruit bright orange fr. sep. blue
- 34740 *Chelonanthus*
Herb, up to 1 m; cor. greenish y
- 34741 *Uncaria*
H.; lvs reddish fibrous, pet. wh.
- 34742 *Piper ardatum-nigra*
S 50-80 m.
- 34743 *Manettia*
Suf. vine, dependent over bank
- 34744 *Eup.*
H \pm 80-100 cm.
- 34745 *Diplazium*
- 34746 *Besleria apillaris*
H ± 1.8 m; cor. r.
- 34747 *Acauth. just. divaricata*
H; cor. wh.; H ± 1.8 m.
- 34748 *Pilea pteropoda*
Suf. herb 1-2 m; infl. white
- 34749 *Hemiteles viscosissima*
S 1.5-2 m, very viscous; pet. wh.
- 34750 *Piper angustifolium*
Much br. S 2.5-3 m.
- 34751 *Sol. inaequilatrum*
S ± 1 m; cor. w, anther y; fr. r

R. Bigua Valley: densely forested valley
w. 7th Elsa, 2700 ft (2)
(825 m)

4/2

forest, 2500 ft (760 m) (3)
open bank, 2200-2400 ft. (4)
... 670-730 m

(730 m)
forested gully, 2400 ft. (5)
Río Engaña, 2200 ft. (670 m) densely forested
river banks

650 m
Mabon Canyon (also at 2200 ft)

- 34752 *Idanum pallidum*
3 or 4 m. t.; fr. red.
- 34753 *Cypha*
Pet. pinkish blue
- 34754 *Mimosa*
S \pm 1.8 m., with spreading branches; stamens yellow
- 34755 *Acalypha divaricata*
T 6-8 m.
- 34756 *Dichromena* (1)
Lvs. slender
- 34757 *Dichromena*
Lvs. broad.
- 34758 *Piper*
S \pm 2 m.
- 34759 *Cavendishia guianensis* ^{Quercus-like, gets name from this = guianensis}
Fr. deep red.
- 34760 *Aral.*?
Young sterile plant, 2.5 m., leafy at apex; stem slender
- 34761 ~~Red~~ *Sol. glabrum*
S 2 m. high; cor. wh. (or yellow?)
- 34762 ~~Diplazium~~ *Hemidictyon marginatum* ^{or other?}
- 34763 *Paspalum*
- 34764 *Marcantha*
- 34765 *Dicranopteris* (rare!)
- 34766 *Pityrogramma schaffneri*?
- 34767 *Ditremexa*
Sf. h.; \pm 1 m.; fls. y.
- 34768 *Pisum hastatum*
H; info. y.

R. Orizaba Valley; R. Engaña, 2200 ft. 4/2
densely forested river bank
open

"
densely forested river bank

Low S \pm 1.5 m.; fr. red; calyx red, then
used to make off. red like pinkish wh.

^{900 m.}
La Elva, 3000 ft. open bank 4/3

34769 *Blechnum*34770 *Dryopteris opposita* (Vahl) Urban34771 *Nicotiana*

S ± 2.5 m.

34772 *Plum?*

T 15-20 m.

34773 *Saurauya*

T 12-15 m; fls. wh.

34774 *Passifl. rubra*

H V; fr. red

34775 *Pilea macrodonata*

34776 Moss

on wet rock

34777 *Gesner.*

Cor lobes white, tube green; lvs pale beneath

34778 *Tab.?* *Lobelia*

local herb, suberect fls. pinkish; plant viscid

34779 *Pilea hyalina*34780 " *pubescens*34781 *Asp.*

S 2.5 m; infl. wh.

34782 *Besleria hirta*

S 2-2.2 m; stem ampl.

34783 *Sol.?*

S 1.5-2 m; fls. pinkish wh; fr. red.

34784 *Gesner. autumnoides*Coarse herb, resembles *Autumn*; fls. rather old or34785 *Gesner.*

Suf. vine; cor. wh.

R. Origua Valley, west of La Elva, 3000 ft. ^{(7) 900}
thicket

4/3

^(610-790m)
dense for, 2200-2600 ft. ⁽⁸⁾

Shaded bank.

dense for. In spray at edge of a falls
^(8a) 2400 ft.
(730m)2000-2100 ft. (600-640m)
Rio Blanco; rocky stream bed
⁽⁹⁾

thickets in stream bed

over wet ground

- 34786 *Peperomia*
Rept on old stump-
- 34787 *Peperomia*
Do.
- 34788 *Habenaria*
Ter; per. pure wh.
- 34789 *Toloma seneca* sessile in upper lvs; cor R.
H, becoming up; variable in size & habit (sup. contin)
- 34790 *Marcgravia* Five Brn
W V
- 34791 *Melast.* " "
- Sorsm. t.; infl. cauliferous
- 34792 *Marant.* " "
Coarse herb
- 34793 *Heliconia* [pet. 40 cm l; blade 193 cm l; 38 cm from margin to midrib on one side, 23 cm. on other (at widest point)]
Infl. 72 cm. long, deflexed; bracts deep r; peduncle 105 cm long
- 34794 *Ruellia Boellmannii*
S 1.5-2 m, much branched; stems slender
- 34795 *Aplis*
Sup. l., ± 1 m; pet. 4
- 34796 *Carludovica*
- 34797 *Arac. luteipes*
Sterile; scand ter. succ. l.
- 34798 *Lesum*
H; cor. purple
- 34799 *Moss*
On wet rocks
- 34800 *Peperomia*
Ter very succ l
- 34801 *Pilea*
Ter.
- 34802 *Selaginella novae-hollandiae* (Sw.) Spring

- (6500-6400)
R. Digua Valley; Rio Blanco, 2000-2100 ft. 4/3
(9a) thickets in stream bed
- (9b) open bank near R. Blanco
2000 ft.
- (9c) edge of forest, 625
- margin to midrib on one side, 23 cm. on other (at widest point)
- 10 Chorrera de la Elsa, 3200 ft. (475 m)
dense forest
- in spray of falls

34803 Selag.

34804 Ruprechtia pilif.

34805 Maladra

34806 Selag. kunzeana Alb.
Coarse, suff. herb, 2-2.5m; pet. brightly

34807 Aphelandra

H ± 40cm; cor. bright r

34808 Peperomia

Eps. Ter.

34809 Piper

S 2.8 m t. ~~± 2m~~, along br. up to 2m long

34810 Pilea

34811 Piper

T 5-7m

34812 Louchetia hirsuta L.

Bluish ! Also

34813 Melast.

Coarse h, ± 2m; fr. r.

34814 Cucurb.

H. V. Cor. greenish of wh.

34815 Eup.

S 2.5-3.5m; suff. wh.

34816 Rub.

T; tube & lobes cream-wh out; lobes orange in

34817 Begonia pauciflora

— pet. wh.

T, 3.5-4m; lvs & fls. at summit; herb ± 4cm. diam.

34818 Calliandra

Smallest ± 2.5m, spreading branch; cor. w, ^{pi} stem

34819 Rubus

WV; pet. wh.; fr. black

R. Orizaba Valley; Chorrera de La Elsa
in spray of falls (10)

(975m)

3200m.

4/3

densely forested
fully joint below falls (10) (975m)

3200m.

Thicket

open bank

La Elsa. dense for. 2900 ft. (880m)

4/4

(900m)

La Elsa, thicket, 3000 ft.

- 34820 *Begonia*
Erec., erect herb, ± 50 cm; pet. wh.
- 34821 *Lichen*
wet rocks
- 34822 *Cyperus*
- 34823 *Sol. flavum*
Suff. h. ± 60 cm; cor. y, fr. red.
- 34824 *Lichen*
On wet rock
- 34825 *Pilea dulata*
- 34826 *Arac.*
Sterile. Ter.
- 34827 *Arac.*
on ~~tree~~ on tree
- 34828 *Anthurium*
Scandent on bank; sterile
- 34829 *Peperomia microphylla*
Report ~~Peperomia~~ on branches
- 34830 *Peperomia*
Report on branches
- 34831 *Urera caracasana*
Small tree; trunk ± 5 cm. diam; infl. on trunk
- 34832 *Solanum* ~~sinistatum~~
 ± 3 m; fr. bright red; fl. cor. light green; ^{stem slender} cauliflorous
- 34833 *Anthurium*
Ter.
- 34834 *Trich. radicans*
On bank
- 34835 *Bromel.*
Ter; fr.
- 34836 *Bromel.*
Ter. Bracts r; per. red, pi. at apex

R. Digua Valley; La Elaa, ^{about} 2000 ft.

4/4

open hillside
(12) Rio Engaña, 2200 ft. (675 m)
densely forested river bank

- 34837 *Lasiacis*
Fl. with clay br. 2-2.5 m. long.
- 34838 *Cich.*
Sp.; per. purple
- 34839 *Psallia corymbiflora*
- 34840 *Costus*
Sep. purple; cor. greenish y
- 34841 ?
Tree; buds greenish
- 34842 *Hydrocotyle*
Herb. h.
- 34843 *Acalypha*
Tree 8-10 m; infl. green
- 34844 *Polyp. frumif.*
On bank
- 34845 *Palum* (water shrub) ^{8 cm. diam.} + 2.2 m; than fibrous bases
Trunk \pm 3 m, with rings about 4 cm. apart up to 1
- 34846 *Ochr.*
Sp.; buds yellowish gr, pi. at apex
- 34847 *Pepenomia*
Ter. leaves thin!, not succ. un.
- 34848 *Cleome*
pet. deep r., pedicels pi.
Stem erect \pm 1-1.5 m. tall, \pm 4 cm. thick
- 34849 *Passifl. chelidonia*
Shrub; H.V.
- 34850 *Dyplazium*
- 34851 *Pteris*
Root thick, subterranean
- 34852 *Pavonia*
Sep. h; 60-1 m; pet. wh.
- 34853 *Cremosperma*
Wet bank

(1200 m)
R. Origua Valley, Rio Engaña, 2200 ft
(12) densely forested river bank

4/4

of sheaths; leaves \pm 2.5 dm. long.
fr. black

34854 Gesner.
H; cor. tube wh, lobes blue

34855 Asplenium
Wet bank under falls

34856 Hep.
On branches

34857 ?

34858 Moss
On rock

34859 Carludovicia
Stem ± 60 cm.

34860 Columna cor. yellowish (? var.)
Ter. Sup. l; br. light gr; lvs. red at margin (can.)

34861 Columna
Ter; lvs. green beneath; bracts red; ex. y

34862 Lycopodium
On Cr. y

34863 Moss.

Coll. Dussan

34864 Peperomia
Efr.

34865 Peperomia
Efr.
Ter.

34866 Peperomia
Ter; lvs. very fleshy

34867 Peperomia
Efr.

34868 Peperomia
Efr.

34869 Utricularia
Small Tr, ± 3.5 m.

34870 Eup.
H ± 2 m; infl. white

R. Origua Valley; R. Engaña
± 2200 ft; (12) (12)
densely forested river bank

4/4

along road (slope?)

(13) La Margarita, on R. Origua, ± 2500 m. (60 m)

- 34871 *Cordia* ^{excl. D. C. C.}
Shrub T, 3.5-4m; trunk 6cm. diam.; fl. red.
- 34872 *Eucharis*
Per. pure wh.
- 34873 *Guano*
- 34874 Sol.
S ± 2m; cor. wh.
- 34875 Eup.
S 2.5m; fls. & styles pi
- 34876 Malv.
H ± 50cm.; pet. y
- 34877 Fuga
T 6-8m; cor. greenish wh; stem wh
- 34878 Cucumb.
HV Ripe fr. red
- 34879 *Dryopteris* (cf. *andreae*) (Sol.) C. Chr. Blue has
- 34880 Cucumb.
HV; cor. y
- 34881 *Dryopteris* *paclipora* Hieron. Blue ! Alston
new to Col. has
- 34882 Polyp. (aff. *vacuumfolia*)
Ref. on tt.
- 34883 *Adiantum* *macrophyllum* Sw. Blue has ! "
- 34884 Rub.
Tree
- 34885 *Trich. sphenoides* Kunze ! Alston
on tt
- 34886 Biophytum
Pet. pi
- 34887 *Adiantum* *concinnum* HB Will.

R. Dugies Valley; La Bargaña, on V. Dugies
(13) ± 2600 2500 ft. (760m)

4/4

(14) La Bargaña (900m)
± 3000 ft. open

4/5 -

2800 ft.

thickets

open 2500 ft (760m)

2600 ft.

thickets 2500 ft. (760m)

La Bargaña dense forest (760m)

- 34888 *Asplenium*
 34889 *Polypodium occultum* Christ !Alston
 Ten
 34890 *Ruellia*
 Cor. pe.
 34891 *Palicourea*
 7.6-8m; branches of inf. y; cor. r.
 34892 *Fittouia*
 Lvs. strongly variegated with wh. ^{above}
 34893 *Centropogon* (Dussan cor.)
 S; cor. r.
 34894 *Urera baccifera*
 S Erect st 1-2m; fruit pe.
 34895 *Sol.*
 Refert; cor. wh.; anther y
 34896 *Phyllanthus*
 Slender herb
 34897 *Paspalum coriaria* Pers.
 H V; sterile
 34898 *Pavonia*
 H \pm 90cm; pet. y
 34899 *Lindera*
 H; cor. light blue & dark blue
 34900 *Nelumbo*
 Pl. \pm 2m. high, br. y in lower 1/3, red rest, per. y.
 34901 *Elythria*
 Cor. pinkish blue
 34902 *Cordia* cor. wh
 S \pm 4m, stem 6-8cm. diam, much br toward apex.
 34903 *Selaginella novae-hollandiae* (Sw.) Spring Blue leaf
 34904 *Piper*
 L. 3m

Rio Orizaba Valley; La Margarita on
 R. Orizaba, 2500m. (7600m)

4/5

field clearing

↓ dense for.

field clearing.

dense for.

- 34905 *Palm* "Chontodorus"
Fr. eaten; taste + like chocolate
J 6-7 m, trunk with many black spines; fruit on ground
- 34906 *Orch.*
Ep. (no spec.) fruits taken for Fairchild
- 34907 *Polygala*
Fls. bi.
- 34908 *Dicranopteris*
very rare; coll. by Selman
- 34909 *Fuga*
J. 5-6 m; stamens white
- 34910 *Fuga*
J 5 m; " "
- 34911 *Orch.*
Ep.
- 34912 *Brom. dryanderace*
- 34913 *Sobradia* col. wh. Rarely, sometimes flowers white
or striped with deep purple at apex
- 34914 ?
Ter. 3 pet. green gr, 2 light purp., paler at base, lip wh, purple
Tree, 4-5 m; fr. red, sphere cal
- 34915 *Melast. quadrang*
T, 3-4 m; pet & stamens styles purplish pi.
- 34916 *Delag.*
on bank
- 34917 *Gesner cordato-bractea*
Ter,
- 34918 *Rub.?*
T 5-6 m; infl. green
- 34919 *Crossara*
T 6-7 m; ripe fruit purplish black; br. infl. white
- 34920 *Melast. cauliflora*
T 3-4 m; fr. red for pet. pinkish wh, transparent
- 34921 *Paulownia*
Ep.; infl. deep green

- R. Dagua Valley, La Elsa 2900 ft. ^{0th} (880m) 4/5-
- La Margarita 2500 ft. (60m)
- La Elsa, open bank (880m)
- El Valle: El Salado, 3500 ft. ^{edge of forest} (1050m)
- .. Cali - ~~El Salado~~ in yard 4/7
- (Mrs. Dryander's garden)
- El Valle: Along highway 10-15 km, E. of Buenaventura 4/12
edge of forest
dense forest

34922 Melast

Ter h, pet wh; fl. viscid

34923 Rynchospora

34924 Scindophyllum

T 2.5-3 m; lvs ringed at summit

34925 Cephalaria

S 70-80 cm; br. bright red; cor. y

34926 Cyperac.

34927 Rub

T ~~6~~ 6-7 m; fl. purplish brown

34928 Melast.

Apparently a vine; this stem long-dependent from high trees

34929 ?

Parasite

34930 Anac.

Ep. Spathe light gr, spadix y-g

34931 Cucurbit.

H V, sterile

34932 Calathea?

Ep.; per. rich pi, paler at base

34933 Euph.

Ep

34934 Aechmea

Ep.; br. bright red

34935 Philodendron

Ep.; spathe wh, greenish at base

34936 Sabicea

Br. green, fl. pi; S 2.5-3 m.

34937 Guttif?

T

34938 Acanth

Er. S \pm 60 cm; br. gr.El Valle. Along highway 10-15 km e. of Boqueron
dense forest

4/12

open swamp
dense forest

- 34939 *Melast.*
Sm. tr., with elong. br.
- 34940 *Do*?
Tree; but is it fruit or gale?
- 34941 *Arac.*
Ep.
- 34942 *Arac.*
Ep.
- 34943 *Hymenoph.*
On branches
- 34944 *Hep.*
Do
- 34945 *Pilea?* *Melast.*?
At base of tr
- 34946 *Gesner*
Ep. Cor. tube greenish wh, lobes deep pi.
- 34947 *Arac.*
Ter. Spikes grass gr., spadix purplish br. & pr. red
- 34948 *Anthur.*
Ep.; st. " " " " " "
- 34949 *Gesner. Columnea*
Ter. Lvs with red spots in axils of leaves in upper half; cor. or. - r.
- 34950 *Columnea*
Ter; lvs " " " " " upper 2 pairs of leaves; cor. or. - red.
- 34951 *Columnea*
Ter; apex & margin of lvs purplish red; cor. y
- 34952 *Brouel.*
Ep.; per. blue, paler distally
- 34953 *Malp.*
Tree; fls. y
- 34954 *Trichomanes*
On tr
- 34955 *Thib.*
Ep. ^{along branches}; cor. red; old calyx white
↓ ? see if true or fl.?

El Valle: along highway 10-15 Km e.
of Buenaventura; dense forest

4/12

Buenaventura Bay; mangrove swamp

4/13

- 34956 *Maep.*
on branches
- 34957 *Epilobium nocturnum*
Ep.; 5 seg. light gr., lip ^(appended 4) & col. wh.
- 34958 *Oreocarya*
Herb, reptant on ground and on small tree-branches
fls. & styles white
- 34959 *Maep.*
Tr. 3-4m; pet. light fr.
- 34960 *Oreol.*
Ep. fr. only
- 34961 *Capanea ??* See Separate Fruit Collection "Pinuel"
Tr 8-10m; pet. wh.
- 34962 *Alga?*
On branches of 34959
- 34963 *Euphyaspermum*
Ep.; cor. wh.
- 34964 *Pavonia*
S 3-4m; pet. yellowish
- 34965 *Piper*
S 1-1.2m., br. divar.
- 34966 *Blac.*
S 3-4m; pet. purplish brown; fr. brown (not ripe)
- 34967 *Anthurium meandrus* Arac.
Scandent on trees; spathe purple, spadix wh.
- 34968 *Dimorphandra*
Tr, 12-¹⁸20m high; trunk up to 80cm. diam; infl. whit very common
- 34969 *Epil.*
Ep. fr.
- 34970 *Tillandsia*
Ex Per. rich purple, whitish at base
- 34971 *Zichu*
On branches.
- 34972 *Rub.*
Small fr.

El Valle: Boventura Bay; mangrove swamp

4/13

- 34973 *Aech.*
Ep; per. pure wh.
- 34974 *Aerostichum*
Y
Tendrils 2-2.5 m. long
- 34975 *Carludovicia* stems wh.
Ep; leaves ~~of~~ in pulch clusters with flowers at base;
- 34976 *Eleocharis*
Ep. (fruit)
- 34977 *Dep.*
On # 34975
- 34978 *Guzmania variegata*
Ep. lvs. variegated purple-green; br. red, per. pink
- 34979 *Anthurium*
EH; spadix purple.
- 34980 *Anthurium*
do do
- 34981 *Anthurium*
Ep.; spathe deep gr; spadix pinkish gr.
- 34982 *Nelumb.*
Tree 3-4 m, with long. br.; pet. wh; sepal. 4-9
- 34983 *Thib.*
woody Ep, elong. br.; cor. r.
- 34984 ?
S, 1.5-2 m; fr. pink
- 34985 *Anthurium*
Ep-; spathe gr; spadix deep purple upper half, pinkish purple lower
- 34986 *Rub.*
§ 50 cm t, ± 3 m; cor. green, lobes deep gr.
- 34987 *Coussipourea*
T, 3-4 m, trunk ± 15 cm diam; fls. wh
- 34988 *Rub.*
Ep. ? br. deep of r. red
- 34989 *Polygodium*
On tree

El Valle: B'ventura Bay; mangrove swamp

4/13

Mangrove Swamp along lower
R. Sagua

4/14

34990 Myrt.

34991 *Sobralia*Ep. ^{stem} 1-1.2 m. high; per. wh.34992 *Sobralia*Ep. ^{5 seg. y-g out, 2-brown in; sep.} 80-100 cm.; ^{wh. br. out, ~~at~~ wh. o purpl. in; col.}34993 *Arac.*

Subsc. on trees; spaths of shape & color of lvs; spadix white (change fruit of 4967 to this)

34994 *Thib.*

W. Ep.; cor. red

34995 *Psychotria*

S 1.5-2.5 m; cor. wh; fr. bright blue

34996 *Gesner. communis*WV; cor. ~~white~~ ^{white} red in lobes & at center, y-g at rim34997 *Gonzalagunia*

S, 2-3 m; stems slender, br. spreading; cor & fr. wh.

34998 *Polypodium lanawatum*

Ref. on TT

34999 *Calathea alba*Ter; per. pure wh; lvs red den, gr. at margin ^{of purple black ~~stems~~ ^{along edge above}}35000 *Triplaris*Ter. fls. red with ^{deep green or rose above} fr. ~~white~~ ^{pinkish wh}35001 *Miconia theaeoides*

S 2-3 m; fr.

35002 *Melast. elongata*

Subsc. sh, elong. br; fr. reddish brown

35003 *Hep.*

on br.

35004 *Moss*

oo

35005 *Adiantum saccolomites*

Ter.

35006 *Philod. psychotriacifolia*

Subsc. ter. lvs, forming tangles; spaths green in lower 1/2, white spotted; wh. upper half.

El Valle: B'ventura Bay; mangrove swamp

4/14

light y

4/13

El Chocó: ^{at 1500 m.} ~~Negra~~ forest along R. San Juan

4/17

- 35007 *Pungia*
fl. wh.; on dec. branches
- 35008 *Saucozia*
Suffr. herb; st erect 35-50 cm; br. r, cor y
- 35009 *Neumethia*
S; buds r; pet & st. pinkish
- 35010 *Cephaelis*
Er. S 80-100 cm; invol. r.
- 35011 *Adiantum*
- 35012 *Pilea imparifolia*
Rep. on ground on lower part of T T
- 35013 ~~*Trichomanes*~~ *Trichomanes*
Rep. on br.
- 35014 *Psych. leucomela*
S or on T, 2.5-3.5 m; cor. light y
- 35015 *Psych. guianensis*
T 3.5-4 m; inf. branches of r; cor. bright y
- 35016 *Gesner. pseudocoma*
WV; cor. wh. out, y or r. in; = 4996, but pedicels slender, subg. narrow; lvs more distant at base
- 35017 *Asplenium tenuis*
on T T
- 35018 *Pepinaria*
Rep. on T T
- 35019 *Rub.*
Er. sh, ± 1 m high; purple fr. br.
- 35020 *Lycopodium orach?*
on T T
- 35021 *Pilea crotolaria*
Ter, subrep; hairs erect on upper leaf surface
- 35022 *Gesner.*
Rep. on T; br. y
- 35023 *Sclerog.*
Ter.

El Choco: Negria; forest along R. San Juan

4/17

- 35024 *Columnaria hirsuta* ^{about base green} Los arboles red along margin on t₁;
 Ep.; cor. ^{the} yellowish pi, lobes deep red at center
- 35025 *Pepersomia*
 Repent on br; lvs fleshy, appressed to branches
- 35026 *Cephaelis* 1
 S \pm 2.5 m; br. deep pi.
- 35027 *Polypodium elongatum* 2
 Rep. on t t
- 35028 *Polypodium leptoschizoides* 3
 On t; sterile
- 35029 *Selagin, haematodes* (Hump) Spring 2
 on t
- 35030 *Passiflora biflora* 2
 + V. sterile
- 35031 *Costus*
 Er, simple herb, \pm 1.5 m; br. deep r; out. per. light r, inner f
- 35032 *Philodendron suborbiculatum* 1
 Rep. on t t
- 35033 *Anthurium* 3
 ds, Spathes grass-gr; spathe deep gr; young fr. 4-9
- 35034 *Piper*
 S 1.5-2.5 m. high
- 35035 *Columnaria*
 On tr; lvs. red ~~blotched~~ ^{calyx r, cor. y} beneath in arborescent form of ferns;
- 35036 *Isocheilus* 1
 Ep. appressed to t t; buds wh.
- 35037 *Polypodium*
 Rep. on t t (fr. in 2 rows)
- 35038 *Scroph.*
 Pro. herb; cor. wh.
- 35039 *Pilea*
 Sm. herb
- 35040 ? Smiley "Zarsapariella"
 WV; stems + roots used for rheumatism

See Separate Fruit Collection.

El Chasco: Uagria; forest along R. San Juan

4/17

60 m
Bobedó; clearing

4/19

shaded bank

Atalagoya 60 m

4/20

- 35041 *Palicourea guianensis*
S 2.5-3.5 m; br. inf. red; cor. bright y
- 35042 *Uncaria paniculata*
T 3-4 m; pet. + st. pinkish wh.; fr. purple
- 35043 *Blabea scandens*.
W.V.; fr. reddish br.
- 35044 *Psychotria bracteata*
S 1.5-2 m; cor. wh; fr. light blue
- 35045 *Cephaelis tormentosa*
S; st. erect \pm 1 m; br. red; cor. y
- 35046 *Faramea*
W.V.; cor. wh.; fr deep r.
- 35047 *Tibouchina*
Low S; fr. blackish; pet, stam + sty. pi
- 35048 *Piper*
S 2-2.5 m, with long, subs. br.
- 35049 *Eschatalogramma*
Efr. On t
- 35050 *Trichomanes* ~~on t~~
on t t.
- 35051 *Columnea angusticephala*
cor. pinkish red; lvs green spotted in young
Jer. Sep. st. \pm 1 m; calyx r.; lvs deep red apex not narrow
- 35052 *Dryopteris*
Jer; frond 1.5 m. long, inch. stipe \pm 75 cm
- 35053 *Aulicium*
Refr.
- 35054 *Peperomia paniculata*
Efr.; lvs. slightly succ.
- 35055 *Polyp. brasiliensis*
Ref. on t t
- 35056 *Dryopteris*
Jer.
- 35057 *Solanum*
Subs. sh; cor. wh; anther y

El Choco: Andagoya, ⁷⁰⁻¹⁰⁰ m; second growth for.

4/20

(Notes Typed)

- 35058 *Piper*
Stem br.; S 60-100 cm. rarely 2.5 cm.
- 35059 *Clidemia cauliflora*
S 2-2.5 m; calyx cream; pet wh.; fr. r.
- 35060 *Culcitum*
- 35061 *Peperomia elongata*
Ep. Succ.
- 35062 *Piper*
S 25-30 cm.
- 35063 *Polyph. laevis*
Rep. m + E
- 35064 *Piper*
S 2.5-3 m.
- 35065 *Polyph. Elaph.*
Ep. stem
- 35066 *Lib.*
Ep.; fr. wh.
- 35067 *Brom.*
Ep.; lvs in dense cluster; fr. only
- 35068 *Palu*
Tr. 3 m high, 15 cm. diam, long spines; infl. ± 30 cm. ^{below}
- 35069 *Cordia ~~conspicua~~ ferrug.*
S stem slender, ± 2.5 m. long, branched; cor. wh.
- 35070 *Hypolepis*
H \pm sup. up to 1.5 m; cor. wh.
- 35071 *Hypolepis*
Slender; cor. wh
- 35072 *Nandina*
S 2-2.5 m; cor. r.
- 35073 *~~Stachy.~~ Dichromena*
- 35074 *Stachytarpheta*
Sup. H up to 1.5 m.; cor. blue tube wh, limb blue

⁷⁰⁻¹⁰⁰
Andagaya: second growth for.

4/20

clearing

- 35075 *Trachocaulis*
Per. wh
- 35076 ~~Philodendron~~ *Spathiphyllum*
Ter. spathe wh; spadix cream
- 35077 Lab.
H.; lvs. variegated above; cor. deep blue, lower lip pale
- 35078 *Bignonia*
H. climbing; W.V.; cor. pi., wh at base (lvs. on ground)
- 35079 *Gesner*
Ter; cor. y
- 35080 *Miconia*
S 2.5-3 m.; pet. o stem wh
- 35081 *Smilax* un
W.V.; buds greenish
- 35082 *Trichomanes*
Ter
- 35083 *Besleria*
Ep.; stems 1-1.5 m long; H.S.; cor. y
- 35084 ~~Argemone~~ *Cyclodinium* *Trinacra* var. *choconae* A.R. Smith
- 35085 *Piper* un
S \pm 3 m
- 35086 *Piper*
S \pm 2.5 m
- 35087 *Arac.* un
Ter. Herb; stem \pm 30 cm; infl. drooping; ^{along with both sides} lvs. variegated
- 35088 *Anthurus*
Ep. fr. or. spathe light g
- 35089 *Papaya macrophylla*
Climb erect herb, \pm 1 m; fr. w; cor. greenish wh
- 35090 *Jaliscoa filipes*
S \pm 2-2.5 m
- 35091 *Arac. trifolium*
Ter. Spathe y, drooping; spadix greenish wh

Andagoya 70-100m clearing

8/20

dense for.
lower Andagoya River 100-150m
clearing along stream

second growth for.

dense virgin for.

- 35092 *Cephaelis*
S 2-2.5 m; br. gr.
- 35093 *Cyclanthus*
Pet. 1.5 m long; ped. ~~± 1 m~~ 50-75 cm
- 35094 *Psychotria hirsuta*
Er. S, ⁵⁰⁻80 cm; fr. bright blue; cor. wh.
- 35095 *Bourrouma*
T ~~80~~ 8-10 m.
- 35096 *Calacthea* un
H ± 1.5 m; lvs. r. brown; per. wh
- 35097 *Palen*
Lvs 2 m. long,
- 35098 *Henriettella daleiflora*
S ± 3 m
- 35099 *Chilomen hirtella*
Scautlet ± 2 m; pet. ^{pinkish wh; anthers light y} pi; fr. deep blue
- 35100 *Sp. Clavija*
S; stem simple, ± 2.2 m, 3 cm diam. fr. or-r.
- 35101 *Spigelia*
Th. rich pi; fr. black; H 60-80 cm.
- 35102 *Marila*
T 3-4 m; tr. simple, ± ^{8 cm} 8 cm diam; lvs o inf. at ~~3~~ 5 m.
- 35103 ?
Tr. ± 4 m, sterile; lvs unimul; largest ± 80 cm long
- 35104 *Philod.*
Ep. Spathes W
- 35105 *Peperomia* un
Rep. Sp. on t
- 35106 *Jesum. hirsuta*
- 35107 *Cissampelos* un
H V
- 35108 *Vernonia*; un
WV; florets purple.

Andagoya; dense for. along lower
R. Condoto 100-150 m

4/20

2^d growth for.

- 35109 *Drosera*
 For Pet. pi
- 35110 *Pilea*
 Succ., suber. herb, inf. at base; stems up to 40 cm
- 35111 *Philod. marginata*
 Ep.; infl. at base of lvs; spathe y
- 35112 *Philod.*
 Ep.; infl. at base of lvs; spathe green at base, cream above
- 35113 *Philod.*
 Cf. above; infl. much smaller but in fruit (Omitted from list)
- 35114 *Colemasperma*
 cor. y - ~~the~~ wet bank
- 35115 *Costus*
 E. H \pm 1.5 m; br. deep r.
- 35116 *Rub.*
 Slender s., up to 1 m; buds gr.-y
- 35117 *Pilea seemannii*
 Ter., succ. herb, inf. at base, lax br.
- 35118 *Drosera*
 Subrep. ter. herb; pet. pr.; lvs red ven.
- 35119 *Carludovicia*
 Rocky stream bed
- 35120 *Dichorisantha*
 Ter.; base of stem long-repent
- 35121 *Piper*
 S. \pm 2 m
- 35122 *Dichromena*
- 35123 *Clitadinum* "Salvia"
 S; florets wh. Stem & lvs used as f. p.
- 35124 *Diplazium*
 out to
- 35125 *Arclit*
 Ep.; per. very fleshy, 5 lips, green, lined in with dull red; col. y-g. (Antobatto)

Andagoya; dense for. along ^{lower} R. Cardote
 160-150 m.

4/20

along densely forested banks of
 small stream

clearing along stream

clearing

4/22

Quimbada Guarapo
 Río; dense forest
 125-180 m

- 35143 *Anthurium*
Ep. spathe deep gr. fr. brown
- 35144 *Cyper*
- 35145 *Trichomanes junceum*
- 35146 *Rub. stenosepala*
Shrub up to 80cm; calyx & lobes white.
- 35147 *Rub. do. nympha*
H; br. green; lvs strongly bullate
- 35148 *Crematosperma*
Wet bank; cor. y
- 35149 *Trichomanes*
Ep. r. t.
- 35150 *Peperomia miniata*
do
- 35151 *Fraxinus*
On log; red on both sides
- 35152 *Mabea*
T 5-6m; elongate br. fls. y
- 35153 *Orech.*
Ep; per. pi (young)
- 35154 *Trich.*
Ep out
- 35155 *(Palae) Chamaedorea*
Junk #2.5-3m; + 60cm
Scandian; lvs + pet. r. s. s.
- 35156 *Moss*
On lvs of 5155
- 35157 *- paniculata*
Sun-tree; buds cream; fr. flesh
- 35158 *Phoradendron*
S 3.5m; buds cream
- 35159 *Isocoma*
S 1-1.5m; inf. branch red; fr. deep purple

Andagoya, Quebrada Guayabo; dense for.
120-150m on ridge

4/22

- 35160 *Piper*
Tree, 5m high, trunk \pm 8cm diam
- 35161 *Hep.*
Densely covering, bright
- 35162 *Lamium*
erect, ~~caul.~~ 20cm. high, 4cm. diam. Sterile
- 35163 *Myrsin*
S; fr. red
- 35164 *Oryopteris* *Thelypteris valdepirosa* (Baker) Reed
Caulis \pm 15cm
- 35165 *Trichomanes*
In TT.
- 35166 *Nicotiana*
T 3-4m
- 35167 *Antitrichomanes?* "Saragosa"
W (stem only) of *guineensis*; should be very attractive
- 35168 *Och.*
Ep; buds cream
- 35169 *Mapania*
- 35170 *Gesner*
out.
- 35171 *Och.*? apparently
Saprophyte? leafless, ~~barb.~~ fr. cream
- 35172 *Moss*
On dec. log
- 35173 *Cyber*
- 35174 *Rub*
T 3-4m
- 35175 *Rub*
T 6-7m; bracts cream; cor. white
- 35176 *Asplenium serratum*
Ep

Audagaya; *Psychotria* ~~leucophylla~~ *leucophylla*
120-150m

4/12

- 35177 *Marchantia*
On dec. log.
- 35178 *Dumyos*
Ter.; fl. white
- 35179 Moss
On dec. log
- 35180 *Rub. nigrocapa*
1.5-6m; fr. blackish
- 35181 *Arac.*
Ter.; spathe light gr; spadix 7-9
- 35182 *Guzmania pilosa*
HV sterile
- 35183 *Aechmea*
Ep. 50-5 gr.
- 35184 *Dumyos*
Plant pink, funnel-shaped. On dec. log
- 35185 *Dumyos*
as above, white brs.
Plant mahogany-coccol, Ter.
- 35186 *Heliconia*
Ep. br. deep red; fr. blackish
- 35187 *Rub.*
Ep. br. light gr; cor. tube deep pi, lobes white
- 35188 *Erythroxylon*
Ter.; per. greenish white
- 35189 *Carludovicia grandis*
Ep; fr. or.; lvs arising flabellate
- 35190 *Paramea*
S. young fr. greenish white
- 35191 *Cephaelis*
cf 5092; S 2.5-3m; cor. wh
- 35192 *Cyathia squamaria*
Callex \pm 30cm lvs, 3.5-4cm diam; fr. 75-90cm
- 35193 *Rub. Coarctata attenuata*
S 2.5-3m; buds pi

Andagoya; dense for. on ridge along blue line
400-600 ft. Guarapo
120-140 m

4/22

- 35194 *Lindsaya*
Ter.
- 35195 *Calandrinia*
Ter. o Ep.
- 35196 Rub.
Succ. herb; cor. wh
- 35197 *Selagin*
On bank along stream, rather open
- 35198 *Acaath.*
H ± 75 cm; cor. bright pc.
- 35199 *Isotoma longifolia*
Fls. wh.
- 35200 Verb.
HV; calyx lobes wh.
- 35201 *Geac.*
WV; cor. wh
- 35202 *Solanum*
Sun. t, 3-4 m
- 35203 *Solanum*
WV; cor. wh, anthers y
- 35204 *Scleria*
~~Monocotyledon~~
- 35205 *Pariflora*
HV sterile
- 35206 *Celastr.*
J. fl. green y, red tinged
- 35207 *Bromelia flavo-rubra*
Ep; bracts infl. o br. red; fls. y
- 35208 Moss
On tt
- 35209 *Rhizidophyllum*
Rph. on tt
- 35210 Arch
Ep. i. infl. red

Andagoya; dense forest ~~along~~ along
Quib. Guarapo 120-180 m

4/22

open bank of ~~river~~ Quib. Guarapo

Tado' 90 m. n of Rio San Juan

forest
~~thicket~~ along

Rio Sangre Yacaré 200-275 m.
Camp I; in open

4/24

edge of
marshy stream bank

dense forest

✓ spot Yacaré (acc. to Bradbury), the name of the stream entering S. Juan at Camp I forming valley to west of ridge on which these collections were made. Whole region called Caracabá, but check spelling!

35211 *Dutena atroneura*

Ter; pet. pi.

35212 *Polypodium angustatum*

On. t. t.

35213 moss

on t. t.

35214 *Gesner. platyphylla*

Ter.; fr. deep red.

35215 *Gesner.* lvs red in upper veins, base

Ep.; br. red; cor. light y; lobes red in.

35216 *Gesner. angustifolia*

Ep.; calyx lobes greenish wh; cor. y

35217 *Carludovica*

Caudex. subter.; fr. deep gr.

35218. ?

clay br.

J; fr. deep gr. calyx & fr. green

35219 *Pilea antioguensis*

at base of t. t.

35220 *Anthurium*

Ep. spadix gr.

35221 *Islandia*

Ep.; fr. deep gr.

35222 ?

last ~~ter.~~ ep. ?35223 *Paullinia*

WV; buds gr.

35224 *Besleria grandiflora*

Ter. herb; cor. mahogany-red; calyx deep red

35225 *Islandia papayifera*

Ep.; fr. red.

35226 *Brouss.* ?

Ep.; br. red, yish at base; infl. covered with gelatinous stuff

35227 *Pilea*St. repent at base, branches lax, suberect; infl. with
on ground or on base of t.

Camp. I; dense for. (200-250 ft)

4/24

- 35228 *Diolena grandif.*
 Ter; lvs 2 bar; pet. fr. wh.
- 35229 *Gesum*
 Ep; cor. tube light pi, densely red-spotted in; lobes r. in
- 35230 *Lulandium*
 Ep.; br. red; per. red, wh at apex
- 35231 *Thib.*
 Ep. along br.; br. rich pi.; cor. slate blue, lobes white
- 35232 *Diolena*
 170 cm
 Ter.; fr. wh.
- 35233 *Gesum. rubioides*
 Ep. br. light green, pink-tinged; cor blue brown 4/3, wh. lvs.
- 35234 *Crematospermum*
 Ter. cor. wh.
- 35235 *Peperomia cordifolia*
 Ep. Rep. out.
- 35236 *Hep.*
 or tt
- 35237 *Anthurium*
 Ep.; spathe gr; spadix or.
- 35238 *Anthurium*
 Ep; fr. red
- 35239 *Gesum*
 Ep; calyx r; cor. pi
- 35240 *Thib. umbellata*
 Ep; br. inf. r. fr. r.
- 35241 *Gesum. elaphoglossoides*
 Ep; cor. bright y; infl. at base; lvs. light gr. bar.; calyx white
- 35242 *Gesum*
 Cor. cream, ter?
- 35243 *Triplaris*
 l.; pet. wh.
- 35244 *Gesum. sericea*
 Ep; buds cream

Comp. T; dense for.

4/24

fr. deep purple on other spec

- 35245 *Liliaceae*!
Ter; per. r, pale at base
- 35246 *Brown*
Ep; br. r.
- 35247 *Lesum*
Ep. calyx deep red; cor. light r.
- 35248 *Thiob.*
Ep; lvs dual
- 35249 *Nicotiana glauca*
St. 4m; fls. light gr.; st. wh.
- 35250 *Pilea*
- 35251 *Phil. caerulea*
Ch; spathe wh.
- 35252 *Nicotiana glauca*
St 3-3.5m; fls. light pi
- 35253 *Asplenium*
Ter; sp. inf. lost?
- 35254 *Asplenium*
Ep; spathe gr.; sp. pale green pi.
- 35255 *Brown*
Ter. br. r, per. wh.
- 35256 *Nicotiana*
St. 3-4m
- 35257 *Cypripedium*
- 35258 *Eleph.*
Ep; sterile
- 35259 *Ref. on t.*
- 35260 *Cycas circinalis*
Caudex root. fr. up to 15m long
- 35261 *Phil.*
Ep.; fr. on.

Camp I, same for.

4/28

- 35262 *Trichomanes repens*
Rep. on tt
- 35263 *Banana*
Ter.; no frt. clear out of plants
- 35264 *Marillaria*
Ep.; per. deep pur.
- 35265 *Trichomanes*
In clumps on tt
- 35266 *Jacquinia*??
T ± 2.5-3 m, leafy trunk apex; all fr. (?) black
- 35267 *Trich.*
Rep. on tt
- 35268 *Moss*
On *Anthurus*
- 35269 *Orch.*
Ep.; per. deep pur.
- 35270 *Samol.* *Deinandra*
S or t? lvs. deep pur. ben str.; cor. pinkish blue
- 35271 *Parnassia tiliaefolia*
H.V.; sterile
- 35272 *Rub.*
Tree? Calyx gr.
- 35273 *Sphagnum torreyi*?
Mosses forming mat
- 35274 *Scroph.*
Hort. herb, or shrub
- 35275 *Spathiphyllum*
Ter.; spathe pure wh, day + greenish wh
- 35276 *Eucharis*
Per. pure wh; pl. leafless
- 35277 *Elm?*
Tree 4-5 m; fr. green
- 35278 ?
Tree, 3-4 m

Yeracün 700-900 ft.
Yacirpa
Camp. I; dense forest

4/24

Uchicheto

open sandy ground along stream

clearing open woods

clearing

open woods.

dense forest (4/25)

4/25

- 35279 *Agave*
Caul. ± 6 m. diam., high; fr. ± 150 cm. long. ^{in fl.} ~~fr.~~
- 35280 *Gesner*
Ter.; cor. y
- 35281 *Cyperus*
- 35282 *Cyperus*
- 35283 *Polypodium*
- 35284 *Cap. Comp.*
S 1-1.5 m; ~~soft~~ rays wh
- 35285 *Pilea*
- 35286 *Gesner*
Ep.; cor. cream, not spotted
- 35287 ~~Psychotria~~ *Cyclodien trianae* var. *chocoma* A.R. S. et al.
- 35288 *Thib*
Ep;
- 35289 *Renealmia*
Fr. red
- 35290 *Geonoma* (all of 2 lvs taken)
Trunk 5 cm diam, 2.2 m. high; pet. ± 30 cm.
- 35291 Moss
At lvs of 5290
- 35292 *Tococa*
Ep. sh. ± 1.5 m; pet. pi.; st. pale; fr. black
- 35293 *Geonoma*
Trunk 3 m high, 3 cm diam
- 35294 *Orch.*
Ep; per. pi
- 35295 *Orch.*
Ep; per. wh

Camp I, dense fr.

4/25

open woods

~~thicket~~

dense fr.

- 35296 Moss
On roots of 3295
- 35297 Sapind. ?
Buds green
- 35298 Anthurium
Ep. m
- 35299 Plumbago
Ep.; fls. white "
- 35300 Miconia
S or srt, 2.5-3m; fr. black; pet. red, cal.
- 35301 Peperomia
Rep. on tt
- 35302 Polypodium
on tt
- 35303 Epidendrum
Ep.; per. seq. green - green
- 35304 Philodendron
Ep.; infl. branched & calyx red; lvs. lustrous above
- 35305 Dypsis
See Separate Fruit Collection.
- 35306 Sapot. (fr. separate) "Carmine" m
Fr. ± 2.5 m; fr. & lvs. from ground or edible
- 35307 Pilea ophiodesmia
Ep.; lvs. mottled above
- 35308 Gesneria
buds green, red-lined longitudinally
Ep.; lvs & bract light gr. base, red-blotched close to apex
- 35309 Gesneria
Ter. herb; fls. buds red
- 35310 Gesneria
Ep.; bracts light gr
- 35311 Palm
infl. at base; fr. white
- 35312 Moss
Caulis ad subterranean; fr. 3-3 m. long incl. pet.
on tt

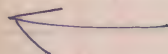
Camp I, dense for.

4/25-

- 35313 *Coussarea* fr. deep gr.
J 4-5m. high; trunk slender, much branched above
- 35314 *Piper*
S, st. erect ± 1.2 m; tw. ^{more app. for} ~~some~~ for my guide, whose ~~head~~ ^{was} ~~head~~
- 35315 *Arctium*
Ep. spath. gr.; spath. pinnate ?
- 35316 Rub. ??
- 35317 *Piper*
H. buds deep pi
st. erect ± 1.5 m; ~~cf. 3514~~
- 35318 *Derris*
~~to~~
- 35319 *Trichomanes* *erectica*
Ter.
- 35320 Selag.
On wet TT
- 35321 Moss
On dec. log.
- 35322 Melast.
J 6m; trunk, 25-30 cm diam; fls. red pi
- 35323 Selag.
On bank
- 35324 Elaph.
On T; sterile
- 35325 Moss
On branches
- 35326 Rub.
J 4-5m; fr. flaccid
- 35327 *Philodendron* *cordatum*
Ep. ; spath. light gr.; lvs. dull above
- 35328 *Passiflora*
Ep. lvs. with broad red margin below; calyx ^{light gr.} ~~light~~
- 35329 *Croton*
Per. wh.

Camp. I; dense for.

4/25-



- 35330 *Xanthosoma*
Ter. spathe deep r; spadix wh
- 35331 *Picramnia*
T; sp. deep r; fls. yg
- 35332 Moss
On banyan
- 35333 Hep
Do
- 35334 *Cyrtosperma squamatum*
Under 2.2 m
- 35335 Rub.
S 2.5-3 m
- 35336 Piper
S \pm 3 m
- 35337 *Guzmania*? Rub.
~~S~~ Suf. herb, ST \pm 30 cm
- 35338 *Peperomia*
Ep; lvs rather fleshy; infl. green
- 35339 ~~On~~ Trich.
On branches
- 35340 Hep
On T L.
- 35341 Elaph.
On branches
- 35342 *Polypodium acrostichum*
On T L.
- 35343 Orch. ??
Ter; per. pinkish blue
- 35344 *Anturium*
Ep. spathe light gr; sp. deep purple
- 35345 Moss
On lvs 75344
- 35346 Lycop.
Ep. ~~—~~

Camp I, dense forest.

4/25-

35347 *Cyathia*
Culm. \pm 45 cm. high

35348 ?

T3.4 m; Fr. red, with 5 deeper lines at sutures

35349 *Anthurium*

Ep.

35350 *Anthurium*

Ep. Sp. & Spad light gr.

35351 *Anthurium*

Ep.

35352 ~~*Anthurium*~~ *Heliconia*

Tree, 4-5 m; buds gr.

35353 *Lycop. cernuum*

35354 ~~*Cyathia*~~ *Siphonanthus*

Wv; cor. wh

35355 *Cyrtia*

Pet. light fr

35356 *Grass*

35357 *Lida rhombifolia*

H up to 1 m

35358 *Tournefortia*

35359 *Saurau*

Cor wh

35360 *Chelocanthus*

35361 *Prochilus*

Ep. opposite to trunk; per. wh

35362 *Opoc.*

Fr. Sp. 3-4 m; cor. y

35363 *Dryopteris*

Copied I; house for.

4/24-

2d growth woods

edge of river, in open

Banks of R. San Juan, open river bank
Concepcion Region, \pm 100 m.

open woods

shaded river bank

35364 *Dichroma*
Br. green, not variegated

35365 *Lambertia*
HV; cor. wh

35366 *Arac.*
Ter.; fl. ^{sp. the} gr.; spad. or.

35367 *Raputia*

35368 *Voyria*
Saprophyte; cor. y

35369 *Mapania*

35370 *Leptochilus*
Ter.

35371 *Clatag.*
High climbing, with long-drooping, "whiplike" roots

35372 *Adisia*
Tr 6-7 m; cor. wh

35373 *Wasscegewia*
T, 4-5 m.; br. bright r.

35374 *Aphelandra*
Coarse l., ~~60-80 cm~~ 60-80 cm; fls. reddish

35375 *Palus*
in upper half of trunk; sterile
Trunk ± 2.2 m h, ± 2 cm diam. lvs. evenly spaced out,

35376 *Cephaelis*
Tr. S, 2 m high; br. bright red
basal part sep.

35377 *Gynostem*
Culm subt., fr. ± 1.6 m. long.

35378 *Phaseolus*
HV; fls. green & y

35379 *Clatag.*

35380 *Dichroma*
In clumps

Camp. I. open bank of R. San Juan

Quilagaya: clearing (escape) 65 m.

" 24 growth for, west side of
R. San Juan 60-90 m.

Clearing.

Sandy & gravelly edges of
river. * = characteristic plants
along S. Juan 60 m.

- 35381 Moss
Dependent from branches
- 35382 *Saurauia* *
- 35383 *Acacia*; *Scrophi*? *
- 35384 *Piper*
- 35385 ? "Pisidium" *
- Variable in height 3-5m; only along the river.
- 35386 *Acacia* *
- Cor. wh
- 35387 *Pilea*
- On muddy bank
- 35388 *Alga*
- On wet rocks
- 35389 *Grass* *
- 35390 *Cordia* upper leaf
- Pl. 1.5-2 m; per. wh. red-tinged toward margin in,
- 35391 *Phyllanthus*
- 35392 *Cassava* *
- S, elong. br up to 2 m l.
- 35393 *Dryopteris*
- 35394 *Inga*
- J 6-10 m; sterile
- 35395 *Prunella*
- 35396 *Polypodium*
- On C.
- 35397 *Castilla* "Cassia"
- Tree tree, giving milk

Andagoya: sandy & gravelly shore of
R. San Juan across from camp 60 m.

4/27

dense for. along stream
60 m.

- 35398 *Polypodium*
Report
- 35399 *Sandhazia*
fl. subsp. br. red, cor. y
- 35400 *Pilea*
Report in soil
- 35401 *Eicharia*
Per. wh
- 35402 *Pityrogramma*
- 35403 *Eleocharis*
- 35404 *Peruvia*
- 35405 *Phyllanthus*
- 35406 *Cleome*
- 35407 *Dioscorea grandis*
Ter.; pet wh
- 35408 *Piper firma*
Ter. Herb, suff. stem 15-60 cm high
- 35409 *Solanum*
auth. green
Lvs S, br. up to 1.5 m. long; cor. greenish wh, pink-lavender
- 35410 *Suriana*
fl. calyx light r, cor. light y
- 35411 *Craetogeomys*
white along underve
Lvs bright gr. above, pale below, cor. y
- 35412 *Piper*
S 2-2.5 m.
- 35413 *Heliconia*
St \pm 1.5 m; infl. pendant; no composite lvs seen; br. r
- 35414 *Pilea degeneri*
Rep. on ground or up base of tree

Audagoya: dense forest along stream,
across river from Audagoya
60 m.

Audagoya
Rio Condoto, Camp III, Mandinga 60 m. 4/28
Sivacampo

clearing

→ dense for. along
trail from bridge III to
Club de Ecuador (alt. 120-130 m.)

- 35415 *Conocarpus*
T 5-6 m; cor. light blue, lobes slightly dark blue
- 35416 *Passiflora*?
Tr 5-6 m; cor. wh.
- 35417 *Passiflora* at summit, fls. among them
- 35418 *Psychotria*
Stem T 2.5-3.5 m; buds greenish
- 35419 *Psychotria*
H; fr. wh.
- 35420 *Psychotria*
Along branches of 35419 or on other br
- 35421 *Piper* 1 cm
S 1.5 m
- 35422 *Solanum pallidum* 1 cm
S \pm 1.5 m
- 35423 *Hemecalia*
Leafy stem \pm 2.2 m; infl. at base; fr. or
- 35424 *Passiflora*
On edge of leaf
- 35425 *Passiflora*
WV; fls. (buds) in clusters on old wood, greenish white
- 35426 *Passiflora*
Tree; branch fallen; fr. or. tinged
- 35427 *Passiflora* *Passiflora* *Passiflora*
No infl. See ref. note
- 35428 *Didyma meoantha* white at base, caducous
Tr.; cor. pet. pinkish blue; anthers cream
- 35429 *Passiflora*
Tr.
- 35430 *Caribaea*
Ep; fr. or.
- 35431 *Caesalpinia* (cf. *Caesalpinia*)
Tree 12-15 m; pod seen but not obtainable

Rio Condoto, dense forest along trail
from bridge III to Q. Europa
(100-120 m)

4/28

Br. paniculata, fr. tinged with cream

35427. *Stictis* \pm 2 m high, about 12 to 15 plants, probably
trunk 40-60 ft high, \pm 20 cm diam; much used
for wood. Lvs 3 m long, inch. pet \pm 12 m.
Sheath twice as long as specimen taken

- 35432 Fern
Ep.
- 35433 Vourapa
Jall tr; stem
- 35434 Rub
Tr, 8-9 m; cor. y-g; lvs toward summit
- 35435 Leucocorym
Plant reddish; on tt.
- 35436 Iselinia
Br. succic; lvs very sharp edged
- 35437 Dryopteris
Tr.
- 35438 Ochroma
Clustering high on tt
- 35439 Aethia acuta
Tr; spathe green; spad. pi
- 35440 ?
Tr, 7-8 m high; fr. deep r; seeds or-n.
- 35441 Sciphiarius
Sapw. cor. faint blue tube light gr, lobes slightly
- 35442 Miland.
Vine appressed to tt.; ^{fruiting} sterile for most
- 35443 Xanthosoma arcuatum
Ep; spathe gr. 2
- 35444 Moss
on dec. log
- 35445 Fern
on bank
- 35446 Biophytum
vls light gr.
- 35447 Pilea
Rep. ter sub. lt
- 35448 Rub.
T 7-8 m; fr. wh

Pl. Cordato: dense forest along trail
from bridge III to H. Guasapo
100-150 m

Bank of small stream

- 35449 *Piper*
er. 8 ± 1 m
- 35450 ?
Projecting from trunk of a tree
- 35451 *Dicranostyles*
up to 10 m; cor. wh
- 35452 *Piper*
 5 ± 2.5 m.
- 35453 *Vernonia*
J 5-6 m; lvs light gr. ben.
- 35454 *Dryopteris*
Thorn ~~to~~ 1.8 m, incl. stipe
- 35455 *Vernonia*
J 7-8 m; lvs rusty-br. ben.; fls. red-br.
- 35456 *Vernonia longifolia*
Slightly, pappus wh
- 35457 *Vernonia plumifera*
Slightly; fls. deep purple; pappus wh
- 35458 *Humula lobata*
H ± 1.5 m.; infl. ~~light~~ y
- 35459 Gesner
Erect shrub 1.5 m high, calyx y-g; cor. bright red.
- 35460 Rub
Jr 4-5 m, along br.; bracts purp.; cor. wh.
- 35461 *Crematosperma*
Jr. cor. y
- 35462 *Spigelia*
H 50-80 cm; cor. pi, tube wh
- 35463 *Philodendron*
Se. out
- 35464 *Acanthaceae*
Open marshy soil, partly in water
- 35465 *Maunderia*
H. V, cor. ~~light green at base, light~~
light of white corolla
infl. y (out); tube red

R. Cordoba: dense for. along trail
from bridge ~~to~~ to th. Guarapo
120-140 m

4/28

El Chaco: *Pastinaca*, about 75 m
along road to thickets
thickets

4/29

forest

thickets

dense forest
(only seen here)

marsh

thickets

- 35466 *Papaver*
Her.
- 35467 *Geum*
Her on bank
- 35468 *Broom*
Ep.; fr. r; fl. (3) wh
- 35469 *Adiantum*
Her. wh
- 35470 *Coccoloba*
Ep. l; cor. light blue; fr. deep blue
- 35471 *Aristolochia*
H V; cor. fls. green lower half, hood red, green-veined
- 35472 *Cayaponia*
H V; fr. y, 8 cm. long, 5 cm. diam
- 35473 *Cordia*
S 1-1.5 m high, with elong. br; cor. wh.
- 35474 *Anthrostenum*
Herb elong. br; fls. pink (fruit yellow)
- 35475 *Croton*
Climber erect H 80-120 cm; fr. y
fr. at base of stem
- 35476 *Passiflora vitifolia*
H V.; sep. & fl. r.
- 35477 *Geum*
WV; br. gr., pi. tinged; fl. r.
- 35478 *Solanum*
S. \pm 1.5 m., elong br; cor. wh. anthers
- 35479 *Trapa mucronata*
Tree
- 35480 *Scroph.*
Suberect herb; cor. bright blue
- 35481 *Broom*
Ep.; buds blue pink, pinkish blue
- 35482 *Croton*
T. 6-8 m (observed at Camp I)

Pithecellobium \pm 95 m. dense for
along road to Chibola

4/29

shrub bank

dense for

thickets

dense for.

thickets

open marsh

- 35483 Selag.
On bank
- 35484 Heliconia *recumbens*
Repeat; per. wh
- 35485 Scroph.
Cor. wh
- 35486 Sossypium
- 35487 Melast
± 1.6-1.8 m. high; pet. wh
- 35488 Hibiscus *unincrusta*
HV; florets white
- 35489 Selag.
On ground
- 35490 Polypodium
On tree
- 35491 Solanum *pallidum*
Sh 2-2.5 m with subsc. br.; cor. wh.
- 35492 Lasiacis
Pl. thick-climbing
- 35493 Cestrum?
Subsc. shrub
- 35494 Solanum
subsc. shrub; cor. greenish wh
- 35495 Begonia
" " ; buds " "
- 35496 Verb.
Coarse herb; ± 1.8 m; buds " "
- 35497 Grass
(None of these Andagaya grasses are good pasture) ←
- 35498 Leg.
Tree 10-12 m; fols on ground; lvs from young shoots
- 35499 Occeidum *fraxin*
Sp.; per. bright y; *cf. fraxin* red-spotted toward center

- 9 strains ± 45 m done for
along road to Quibola
detail
- 4/25
- ± 65 m
Andagaya (cult.; specimen given me
by one of employees of Company)
- 4/50
- second growth forest
thickets 70-100 m
- second-growth for.
- clearing
- second growth for.

35500 Trichomanes

On t t

35501 Anon.

See separate Fruit Collection

"Guáquina Blanca"

Tree 15-20 m, trunk 80-100 cm. diam; bark just in leaf, 6-18 m high, trunk 20-25 cm diam.

35502 Palau

No stipe; trunk 40-60 ft.

"Chortaduna" Pl

infl. borne just below lowest leaf. Leaf \pm 7 ft. long, 2.5 ft. wide, petiole chestnut.

35503 Brownea multijuga

35504 Epidendrum

Ep.; all fr. very greenish white

35505 Ficus

Among roots of 5504

35506 Orch.

Ep.; fr. young (?)

35507 Orch.

Ep.; fr. white

35508 Orch.

Ep.; sterile?

35509 Orch.

Ep.; old fr. reddish

35510 ? Fern:

Hanging in a dense mass from t t

35511 Eleocharis

35512 Moss

On t t

35513 Palau

Tr. \pm 3 m h, 3 cm diam; pet. \pm 12 cm; fr.

35514 Myrt.

Shrub, \pm 2.5 m; buds (?) reddish

35515 Comp.

V. scandent up t t

35516 Codonanthus

Scandent on t t, (buds)

Audagaya: second growth forest 70-100 m

4/30

near stables and is used for firewood

5/1

148

(See record notes) clearing

very common in plantations along S. Juan

Río Frío, Geo. Rhodes coll. 470 m

4/30

dense for.

Buenaventura Bay: mangrove swamp

5/4/1

Tidal thickets along mangrove swamp

- 35517 *Bonania*
 Suberect; cor. wh.
- 35518 *Desm. frutescens*
 Herb, suff. below, br. erect; pet. pinkish purple
- 35519 *Oxalis*
 Pet. w
- 35520 *Passifl. coriacea*
 N.V.; sep. light gr.; fr. purple
- 35521 *Melochia*
 H. \pm 50 cm; pet. wh.
- 35522 *Coleum*
 H.; tube light r. out. y. in, lobes light red, deeper red. spots
- 35523 *Chaptalia*
 Suff. H., up to 1 m; pet. wh.
- 35524 *Passifl.*
- 35525 *Desmodium*
 St. repent
- 35526 *Passiflora*
 S \pm 1.5 m; much branched above; cor. wh.
- 35527 *Passifl. subpectata*
 N.V. stem
- 35528 *Passifl. capoulana*
 H.V.; all flower parts greenish wh.
- 35529 *Pouzolzia obliqua*
 S or less \pm 1 m
- 35530 Moss
 On T
- 35531 *Heliconia*
 Stem \pm 1.7 m; infl. erect; br. or, just toward tip
- 35532 *Desm.*
 S \pm 2.5 m; pet. purple (perhaps suffused)
- 35533 *Desm. adifera*
 Suberect, pet. wh.
 with subprostrate branches

B/ Ventura Bay, thickets along
 mangrove swamp

5/4

Cienfuegos: open bank

5/5-

Thickets

open bank

Thickets

~~open~~ open woods

thickets

Unicates given Bugota, and brought back, amounting,
 in loan $\frac{152}{1548}$ Date date of return
 to Bugota

is loan

Boat - date of return
to Hong Kong

1-5-3/4/42

180 - 1614 -

181 - 3/4/01

11. 10. 1900

2. 1/4 of 1/2 = 1/8

270 - 5/50

301 - 31-411 11/14/45

306-1040

307 - 1115

708 *Cont.*

315

316 3/4 171

372

3 11614

227. Brown (1888)

329 2/4/41

314 7/42

335-344/46

236 3/4/21

354 3/41-1
- 5/50

1245-730

90 3/4 (41)

5/28 11/10

426

799

1

630
577
—
53

- 35534 *Fittouia*
Ref. H., lvs conspicuously white venid above
- 35535 *Geum*
Jar; cor. orange
- 35536 *Carludovica palmata*
Caulescent; fl. ~~1.5-1.8 m.~~ 1.5-1.8 m.; infl. green
- 35537 *Adiantum macrophyllum*
- 35538 *Nelaudria*
Ep.
- 35539 *Solmsia*
H V; infl. orange
- 35540 *Adiantum meland.*
- 35541 *Cayaponia*
H V
- 35542 *Lasiacis*
High climbing
- 35543 *Selag.* *Selaginella bombycina* Spring
on bank
- 35544 *Cissampelos grandif.*
H V
- 35545 *Calathea glauca*
St. \pm 60 cm. fls ~~cor.~~ or. wh; per. granule & dist, pale
- 35546 *Geophila*
Ref. H; cor. wh; ~~fr.~~ fr. r
- 35547 *Hep.*
Hanging from branches
- 35548 *Renealmia* (fr. rep.)
Leafy stem 2-2.1 m; infl. pedunc \pm 30 cm; fr. ^{light} r.
- 35549 *Dryopteris*
^{mont.}
Caudex subter.
- 35550 *Peperomia elongata*
Ep.

El Valle: Cienfuegos, open woods
400-500 m.

7/8-

thickets

open woods

- 35551 *Polypodium purpurascens*
on t.
- 35552 *Cyrtopogon semundatus*
Ler.
- 35553 *Melothria*
H V
- 35554 *Costus*
H ± 1.8 m; br. r; per. wh.
- 35555 *Ferrielea*
H V; fr. black
- 35556 *Vernonia*
Erect fr. ± 4 m; pappus wh.
- 35557 *Anthurium*
Erf. Spadix deep bright pi, fr. (?) wh, pinkish at base
- 35558 *Paspalum halimii*
H V; sterile
- 35559 *Oryzanthus*
Par.
- 35560 *Oryopteris* *Thelypteris gemmulifera* (Hieron.) det. B. G. Lallinger 1983
- 35561 *Eup.*
S; ± 2 m
- 35562 *Tradescantia gracilis*
Lax ^{stem} ± 50 long; per. wh.
- 35563 *Cayaponia*
H V
- 35564 *Piper*
S ± 2.2 m.
- 35565 *Chamaefistula*
herb. t., 3-3.5 m; pet. light y
- 35566 *Pongolzia occ.*
Sm t. 3-4 m
- 35567 *Paspalum filif.*
H V; sep. & pet. scarlet

Crauceros #400-500 m. open woods

575 -

thickets

open woods

- 35568 ~~Croton~~ *Dimerocostus* per. wh, or pinkish ^{cent}
Arboreal; trunk 4 m high, 7 cm. diam. ~~ft. 10 ft~~
- 35569 *Ficus*
Tr. 5-6 m.
- 35570 *Polyph.*
Ep
- 35571 *Piper*
S \pm 2 m
- 35572 *Epiphyllum*
Ep; ~~fr. green~~ per. green.
- 35573 *Asplenium*
Tr 6-7 m
- 35574 *Acanth.*
H \pm 1 m; lower lvs. pi
- 35575 *Turnera ulmifolia*
H \pm 40 cm; pet. y
- 35576 *Canna*
H, \pm 1.2 m; per. r.
- 35577 *Begonia*
lvs.; pet. wh, pi-tinted
- 35578 *Cheilanthes*
- 35579 ~~Buddleia~~ *Centrosema pubescens*
HV; ~~fr. standard~~ bluish pi
- 35580 *Mor.*
Tree 5-6 m; infl. y-g
- 35581 *Columna*
Cor. r., lobes green, black-spotted in
- 35582 *Alternanthera*
H ~~60-80~~ 70-80 cm; infl. greenish wh
- 35583 *Dracopis sericea*
HV; pet. pinkish bluish.
- 35584 *Lepidodermis*
V

Cisneros 400-500 m; open woods

5/5-

300 m thickets along R. Dagua

shale bank

thickets along R. Dagua

shale bank

thickets " " "

- 35585 *Pilea*
Succ. Lmb
- 35586 *Aphelandria*
S $\pm 1\frac{1}{2}$ m; cor. bright r.
- 35587 Bromel.
Ep.
- 35588 Selag.
Ter.
- 35589 *Acauth*
Herb. ± 1.8 m; cor. blue
- 35590 *Aphelandria*
S ± 2 m; cor. bright r.
- 35591 *Peperomia*
Report on branches
- 35592 *Oncidium* ~~junck~~
Epi; cor. bright y
- 35593 *Pavonia*
H ± 80 cm; pet. pi.
- 35594 *Oxalis*
Pet y
- 35595 *Aulthum*
Ter.; infl. at base of pet.; lvs up to 1 m lvs
- 35596 *Panicum trichosperum*
- 35597 Grass
- 35598 *Sida limfolia*
Pet. wh
- 35599 *Marchantia*
On wet bank in spray of falls
- 35600 *Gesner*
Ter; cor. wh with pinkish-pink in & at center of white lobes
- 35601 Selag. *Selaginella novae-hollandiae* (Sw) Spring

Casuaras, 500 m; thickets along R. Dagua

5/10-

open shale bank

west bank in spray of water

- 35602 Grass
 35603 Moss
 35604 *Piper cordatum*
 Fr. S. branched at base, br. up to 2.5 m.
 35605 *Pilea unguifolia*
 35606 *Hydrocotyle Euph.*
 H. l. H; florets blue
 35607 *Gesneria*
 Cor. tube wh, lobes blue
 35608 *Peperomia*
 sp.
 35609 ~~Chor~~ *Selagin*
 35610 *Pilea pubescens*
 35611 *Brachyotum*
 H \pm 1.5 m.; cor. 7; fr. red
 35612 *Euphorbia*
 Fr. red toward base
 35613 *Vernonia*
 S \pm 2 m; plants pinkish blue
 35614 *Tectaria*
 35615 *Scroph.*
 Prov. l. H, cor. wh
 35616 *Sesuvium*
 Fr. herb; cor. blue
 35617 *Portulaca*
 res. deep pi.
 35618 *Solanum*
 H up to 50 cm; cor. wh

Cissampelos 300 m; wet bank in spray
 of falls.

70-

open woods
 wet bank in spray of falls

thickets

wet bank - - -

" " " "

open bank

shaded -

thickets

wet bank in spray of falls

gravelly ^{river} ~~stream~~ bed

- 35619 *Galactia*
Ref. H; pet blue
- 35620 *Chamaecrista*
Pet. y
- 35621 *Polygala*
Pet. pinkish blue & wh
- 35622 *Mucuna* (33142a)
Seeds
- 35623 *Hybanum* (33190a)
Pet. y
- 35624 *Grass* (33136a)
- 35625 *Bromel.* (33220a)
Ter.
- 35626 *Genes.* (33247a)
Ter.
- 35627 *Lindsaya* (33247a)
- 35628 *Genes.* (33247a)
Ter.
- 35629 *Genes.* (33247a)
Ter.
- 35630 *Croton* (33247a)
- 35631 *Psidium* (33247a)
- 35632 *Rub.* (33247a)
- 35633 *Rypch.* (33247a)
- 35634 *Moss* (33247a)
On 334(9)
- 35635 *Forst. mangrove*
In 100 ft. to end (near the mangrove)

- Asiatica, 300 m., grassy thicket
open bank 5/5-
- Bventura: waste places 5/7
- Gorgona Is.: beach 2/9
- " : " (d.f. along stream) 2/11
- " " " " coastal thicket "
- " " " " " 2/14
- Kuc. 18, dense for.
- " "
- " "
- " "
- " "
- North shore, Bventura Bay
- " "
- Cordoba: in ditch 2/17
- " dense for.
- Ed. Thales

- 35636 *Carludovica* (3331a)
 35637 *Piper* (33519a)
 35638 *Piper* (33541a)
 35639 *Acauth.* (33590a)
 35640 *Uros* (33710a)
 On dec. branches
 35641 *Lesuei.* (33762a)
 35642 *Sol.* (33771a)
 35643 " (33782a)
 35644 *Moss* (33803a)
 On branches
 35645 *Trichomanes* (33826a)
 35646 *Och.* (33843a)
 35647 *Epf.*
 Lesuei. (33914a)
 35648 *Epf.*
 Perbeis (33918a)
 Small tree
 35649 *Grass* (33945a)
 35650 *Cyperaceae* (34076a)
 35651 *Marant.* (34232a)
 35652 *Hyptis* (34309a)

Bahia Solano; dense for. along th. Jachita

2/22

"

"

"

"

"

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"

"

Yanacomas: dense for. Monte Lirio

2/27

"

El Silencio

2/28

"

"

"

"

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"

"

San Antonio

3/2

"

Par. de Guasca

3/12

"

± 20 km S.E. Velaviccio; palm jungle

3/17

"

"

"

"

"

llanos

- 35653 Leg. (34402a)
HV; pet. blue
- 35654 Clibadium (34402a)
- 35655 Mimosa. (34409a)
Tree 5-6m high
- 35656 Melast. (34403a)
- 35657 ^S Cissampelos (34407a)
- 35658 Arch. (34404a)
ep. Ter.
- 35659 Opalis (34405a)
- 35660 Comp. (34406a)
- 35661 Hib. (34407a)
S, along branches; bracts pi; cor. white
- 35662 Arch. (34408a)
Ep.
- 35663 Galetthia (34409a)
low S
- 35664 Pilea
- 35665 Rust on 344098 (34410a)
- 35666 Acauth. (34411a)
- 35667 Eup. (34414a)
- 35668 Arch. (34419a)
Ep.
- 35669 Elaeagnus (34420a)
Ep.

Rio Ocoa; rocky stream bed

3/18

Rio Guatiquia; streambed

"

" edge of river

" woods along river

(Quindío Highway, Km 45; wooded valley ^{2430m})

3/27

" " open bank, 2200m.

" " 2750m

" " "

" " divide

" " ± 2900m

3/28

" " open bank, ± 2900m

"

Along R. Cauca, n.e. of Cali; 6000m

3/31

La Elva, 825m; densely forested valley

4/2

Rio Engaña

4/4

B(ventura Bay; mangrove swamp

4/13

- 35670 Melast. (35092a)
Tree, 3-4 m; fr. purple
- 35671 Gesner. (35092a)
- 35672 Antthurium (35092a)
- 35673 Palu (35092a)
- 35674 Orch. (35188a)
Ter.
- 35675 Myrsin (35188a)
T
- 35676 Hef. (35190a)
On tt.
- 35677 Moss (35188a)
On branch
- 35678 Piper (35188a)
Ter.
- 35679 Hef. (35188a)
On branches
- 35680 Hib. (35188a)
- 35681 " (35188a)
- 35682 Gesner (35188a)
- 35683 Bromel. (35188a)
Ep.
- 35684 Bromel. (35188a)
- 35685 Arac. (35188a)
- 35686 Antolochia (35188a)

Andagoya, 75-100 m; 2nd growth fr.

4/20

Lower R. Condoto

4/20

"

"

Quebrada Guarapo

4/22

"

"

Corcovada Region

4/23 -

Across R. San Juan

4/27

Mandingo - Guarapo

4/28

"

"

"

"

"

"

Estimada

- 35687 Fern (35732a)
 35688 *Passiflora*
 Fruit from Hotel alpin Real
 35689 *Hymenophyllum* (34263a)
 35690 " (33562a)
 35691 *Calathea* (3474a)
 35692 *Passiflora* (34412a)
 35693 *Diolena spicata* Trinius (35243a)
 35694 *Urtica* (34673a)
 35695 *Heteropogon* 350056
 35696 *Verbena* 35239a
 35697
 35698
 35699
 35700
 35701
 35702
 35703

- Cassia*; *Thibet* 5/5
Calceolaria 4/9
 20 Km S. Villavieja
Pratia *bolanderi*, *Andr.* *jacquinii*
Oregia *Valley* 4/24
R. Guadalupe 4/24
Cercobala 4/24
Humulus 3/28
R. heugera 4/17

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